M33-2(86)-1

CURRENT INDUSTRIAL REPORTS

Aluminum Ingot and Mill Products

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JANUARY 1986

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Issued April 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information appears on page 7.

This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for February 1986 will be released on or about April 18, 1986. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986 AND 1985

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
January	1,217,913	960,178	257,735	5,240,668
1985				
December	1,034,772	817,534	217,238	5,160,320
November	1,121,099	852,060	269,039	5,245,781
October	1,267,088	976,105	290,983	5,337,033
September	1,257,858	918,284	339,574	5,437,689
August	1,221,993	965,281	256,712	5,488,521
July	1,195,127	933,559	261,568	5,574,930
June	1,191,462	933,380	258,082	5,595,827
May	1,293,544	989,891	303,653	5,684,076
April	1,216,352	976,933	239,419	5,727,806
March	1,290,447	985,980	304,467	5,799,577
February	1,129,109	874,290	254,819	5,819,877
January	1,146,209	884,640	261,569	5,915,886

[1]Of this total, net shipments of extrusion ingot was 31,063 for January 1986 and 32,905 for December 1985. Net shipments of other ingot was 226,672 for January 1986 and 184,333 for December 1985.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.

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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
JANUARY 1986			
Aluminum ingot and mill products[1]	1,770,568	399,603	153,052
Integrated	1,176,548	(D)	(2)
Smelters	171,084	(D)	(2)
All other	422,936	214,549	(2)
Imports (ingot only)	180,425	-	(2)
Nonintegrated	242,511	214,549	(2)
Mill products[2]	1,024,179	64,001	(2)
By type of producer:			
Integrated	803,787	17,729	(2)
Nonintegrated	220,392	46,272	(2)
Ingot	746,389	335,602	153,052
By type of producer:			
Integrated	372,761	(D)	(D)
Smelters[3]	171,084	(D)	(D)
All other	202,544	168,277	(D)
Imports[4]	180,425	-	-
Nonintegrated	22,119	168,277	(D)
By type of ingot:			
Extrusion ingot	136,135	105,072	(5)
Integrated	68,212	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	86,531	(D)
Imports[4]	30,590	-	-
Nonintegrated	(D)	86,531	(D)
Other ingot (primary and secondary)	610,254	230,530	153,052
Integrated	304,549	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	81,746	(D)
Imports[4]	149,835	-	-
Nonintegrated	(D)	81,746	(D)
DECEMBER 1985			
Aluminum ingot and mill products[1]	1,436,486	306,963	94,751
Companies primarily shipping--			
Ingot	451,421	40,733	(X)
Imports (ingot only)	127,405	-	-
All other	324,016	40,733	(X)
Mill products	985,065	266,230	(X)
Sheet, plate, and foil	809,111	111,160	(X)
Wire and cable	35,620	22,975	(X)
Pipe, tube and shapes	134,324	126,694	(X)
All other	6,010	5,401	(X)
Mill products[2]	864,363	46,829	(2)
Sheet, plate and foil	577,453	26,558	(2)
Wire and cable	45,250	-	(2)
Pipe, tube and shapes	179,155	-	(2)
All other	62,505	20,271	(2)
Ingot	572,123	260,134	94,751
By type of producer:			
Integrated	293,083	(D)	(D)
Smelters[3]	135,637	(D)	(D)
All other	143,403	144,462	(D)
Imports[4]	127,405	-	-
Nonintegrated	15,998	144,462	(D)
By type of ingot:			
Extrusion ingot	122,413	89,508	(5)
Integrated	69,183	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	77,128	(D)
Imports[4]	25,325	-	-
Nonintegrated	(D)	77,128	(D)
Other ingot (primary and secondary)	449,710	170,626	94,751
Integrated	223,900	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	67,334	(D)
Imports[4]	102,080	-	-
Nonintegrated	(D)	67,334	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals or give precedence to annual totals.
(X) Not applicable.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 44.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	January 1986			December 1985		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products[1]	(NA)	1,024,179	64,001	960,178	864,363	46,829	817,534
	Sheet, plate, and foil	(NA)	585,648	35,241	550,407	516,310	26,558	489,752
	Sheet	(NA)	562,087	35,241	526,846	495,264	26,558	468,706
33532 21	Nonheat-treatable	23	541,665	35,241	506,424	475,418	26,558	448,860
33532 25	Heat-treatable	6	20,422	(2)	20,422	19,846	(2)	19,846
	Plate	(NA)	23,561	(2)	23,561	21,046	(2)	21,046
33531 15	Nonheat-treatable	8	7,860	(2)	7,860	4,755	(2)	4,755
33531 13	Heat-treatable	5	15,701	(2)	15,701	16,291	(2)	16,291
33533 51	Foil	14	74,397	(2)	74,397	61,143	(2)	61,143
	Rod, wire, and cable	(NA)	86,044	24,421	61,623	71,697	16,864	54,833
	Rod and bare wire	(NA)	35,321	24,421	10,900	26,447	16,864	9,583
33552 25	Drawing stock (redraw rod)	9	28,157	24,421	3,736	20,707	16,864	3,843
33551 31	Bare wire	20	7,164	(3)	7,164	5,740	(3)	5,740
	Cable and insulated wire	(NA)	50,723	-	50,723	45,250	-	45,250
33551 65	ACSR and aluminum cable, bare	11	21,057	-	21,057	18,893	-	18,893
33570 25	Wire and cable, insulated or covered	19	29,666	-	29,666	26,357	-	26,357
	Rod, bar, pipe, tube and shapes	(NA)	257,780	4,339	253,441	197,538	3,407	194,131
	Rod and bar (rolled and extruded)	(NA)	23,496	4,339	19,157	18,383	3,407	14,976
33541 15	Alloys other than 2,000 and 7,000 series	17	13,289	4,339	8,950	10,338	3,407	6,931
33541 18	Alloys in 2,000 and 7,000 series	7	10,207	(4)	10,207	8,045	(4)	8,045
	Pipe and tube (extruded and drawn)	(NA)	23,490	(4)	23,490	17,459	(4)	17,459
33542 43	Alloys other than 2,000 and 7,000 series	32	22,434	(4)	22,434	16,994	(4)	16,994
33542 45	Alloys in 2,000 and 7,000 series	5	1,056	(4)	1,056	465	(4)	465
	Extruded shapes	(NA)	210,794	(4)	210,794	161,696	(4)	161,696
33541 25	Alloys other than 2,000 and 7,000 series	103	204,960	(4)	204,960	156,714	(4)	156,714
33541 28	Alloys in 2,000 and 7,000 series	6	5,834	(4)	5,834	4,982	(4)	4,982
	All other	(NA)	20,310	(4)	20,310	17,675	(4)	17,675
	Powder and paste	(NA)	8,361	(4)	8,361	8,486	(4)	8,486
33991 13	Atomized	6	6,058	(4)	6,058	6,175	(4)	6,175
33991 16	Other flake, powder and paste	6	2,303	-	2,303	2,311	-	2,311
	Forgings and impacts	(NA)	11,949	-	11,949	9,189	-	9,189
34631 21	Forgings	19	8,450	-	8,450	7,299	-	7,299
34631 41	Impacts	8	3,499	-	3,499	1,890	-	1,890

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in January 1986 are as follows: total, 12,794 thousand pounds; sheet, plate, and foil, 10,000 to 20,000 thousand pounds; redraw rod and wire, 1,000 to 2,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in December 1985 have been revised as follows: total, 9,183 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (NA) Not available.

[1] For January 1986, the unduplicated number of companies shipping sheet, plate, or foil was 28; shipping rod, bar, wire or cable was 36; shipping pipe, tube or shapes was 115; and shipping all other was 30.
[2] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[3] Data included with drawing stock to avoid disclosing figures for individual companies.
[4] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: JANUARY 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
Total	1,024,179	803,787	220,392	64,001	17,729	46,272
Sheet, plate, and foil	660,045	625,339	34,706	35,241	(D)	(D)
Drawing stock, wire, and cable	86,044	64,319	21,725	24,421	(D)	(D)
Rod and bare wire	35,321	26,784	8,537	24,421	(D)	(D)
Cable and insulated wire	50,723	37,535	13,188	-	-	-
Rod, bar, pipe, tube, and shapes	237,780	100,570	157,210	4,339	(D)	(D)
All other[1]	20,310	13,559	6,751	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	January 1986				December 1985			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,240,668	4,525,685	527,499	187,484	5,160,320	4,421,740	540,571	198,009
Ingot	2,197,232	1,904,749	198,414	94,069	2,242,648	1,961,650	(NA)	(NA)
Scrap	560,883	419,984	47,484	93,415	568,962	408,624	(NA)	(NA)
Other	2,482,553	2,200,952	281,601	-	2,348,710	2,051,466	297,244	-

- Represents zero. (NA) Not available.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	January 1986	December 1985
Ingot and mill products (excluding forgings, but including forging stock)[1]	15,935	11,156
Sheet and plate	8,260	4,657
Other (including ingot)	7,675	6,499
Forgings and impacts	1,230	1,446

[1] Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	JANUARY 1986						
	Mill products[6]	918,563	41,849	4.6	91,154	967,868	9.4
33532 21 33532 25 33531 13 33531 15	Sheet and plate	550,407	36,862	6.7	78,063	591,608	13.2
33533 51	Foil	74,397	610	0.8	5,021	78,808	6.4
33552 25 33541 15 33541 18	Rod and bar	22,893	1,105	4.8	2,842	24,630	11.5
33551 31	Bare wire	7,164	682	9.5	1,628	8,110	20.1
33551 65	Bare cable	21,037	28	0.1	459	21,488	2.1
33541 25 33541 28	Extruded shapes	210,794	1,801	0.8	1,596	210,589	0.8
33542 43 33542 45	Pipe and tube (extruded and drawn)	23,490	347	1.5	619	23,762	2.6
33991 13 33991 16	Powder and paste	8,361	414	5.0	926	8,873	10.4
	DECEMBER 1985						
	Mill products[6]	781,988	27,757	3.5	81,794	836,025	9.8
33532 21 33532 25 33531 13 33531 15	Sheet and plate	489,752	22,650	4.6	71,021	538,123	13.2
33533 51	Foil	61,143	1,012	1.7	4,321	64,452	6.7
33552 25 33541 15 33541 18	Rod and bar	18,819	823	4.4	2,553	20,549	12.4
33551 31	Bare wire	5,740	285	5.0	566	6,021	9.4
33551 65	Bare cable	18,893	587	3.1	517	18,823	2.7
33541 25 33541 28	Extruded shapes	161,696	1,434	0.9	1,624	161,886	1.0
33542 43 33542 45	Pipe and tube (extruded and drawn)	17,459	492	2.8	620	17,587	3.5
33991 13 33991 16	Powder and paste	8,486	474	5.6	572	8,584	6.7

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

Table 8. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS: 1986

Product code	Product description	Export number	Product description	Import number	Product description
				618.2520	Circles and discs
				618.2550	Plates
				618.2560	Sheets and strips of alloy, aluminum, in coils, unpainted, over 0.008 but not over 0.017 inch in thickness and over 10 inches in width
33532 21	Sheet	618.2870	Circles and discs		
33532 25		618.2890	Other		
33531 13	Plate	618.2830	Circles and discs	618.2563	Sheets and strips other than as described above
33531 15		618.2850	Other	618.2580	Other
				618.2720	Circles and discs, clad (wholly of aluminum)
				618.2765	Other, clad (wholly of aluminum)
				618.2900	Other, clad
				644.0800	Foil not over 0.00035 inch in thickness, valued not over 55 cents per pound, not backed
				644.0600	Etched capacitor foil, not backed
				644.0900	Foil not over 0.00035 inch in thickness, valued over 55 cents per pound, not backed
33533 51	Foil	644.0720	Not backed	644.2600	Foil cut to shape, not over .006 inch in thickness, not backed
				644.1100	Foil over 0.00035 inch in thickness, valued not over 55 cents per pound, not backed
				644.1200	Foil over 0.00035 inch in thickness, valued over 55 cents per pound, not backed
33552 25	Drawing stock (redraw rod)	618.1540	Rods, 0.375 inch or more in diameter (including continuous cast)	618.1540	Rods, 0.375 inch or more in diameter
33541 15	Rod and bar (rolled, continuous cast, and extruded)	618.2810	Bars	618.2540	Bars, not clad
33541 18					
33551 31	Bare wire	618.1520	Rods, under 0.375 inch in diameter (including continuous cast)	618.1520	Rods, under 0.375 inch in diameter
				618.2000	Wire, not coated or plated with metal
		618.2100	Wire (including continuous cast)	618.2200	Wire, coated or plated with metal
33551 65	Bare cable	688.2000	Uninsulated electrical conductors composed of aluminum wire or strand spirally wound or twisted around a steel or aluminum core	688.2000	Uninsulated electrical conductors composed of aluminum wire or strand spirally wound or twisted around a steel or aluminum core
33541 25	Extruded shapes	618.1700	Angles, shapes, and sections (including continuous cast)	618.1700	Angles, shapes, and sections
33541 28					
33542 43	Pipe and tube (extruded and drawn)	618.4620	Tubes, pipes, and blanks (seamless)	618.4700	Pipes, tubes, blanks, and pipe and tube fittings of aluminum except hollow cast extrusion ingots
33542 45		618.4640	Tubes, pipes, and blanks (except seamless)	618.4800	Canadian article and original motor vehicle equipment
33991 13	Powder and paste	618.4000	Flakes	618.4000	Flakes
		618.4200	Powders	618.4200	Powders
33991 16		472.5700	Metallic aluminum pigments	473.8810	Metallic aluminum pigments, not containing lead

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers companies engaged in the production in the United States of aluminum ingot and mill products, whether or not the production is for own use. Master alloys are included. Receipts of imported aluminum products are also included.

Survey Methodology. The statistics in this publication are collected by mail on Bureau of the Census, International Trade Administration joint survey monthly Form ITA978, Aluminum Producers and Importers Report (Receipt, Shipments, and Stocks). The panel for this survey consists of all known producers of aluminum ingot and mill products shipping 10 thousands of pounds or more of aluminum ingot and mill products per month, approximately 230 companies. Based on an earlier study, small producers shipping less than 10 thousands of pounds per month would not significantly affect the survey results.

Survey Error. Figures for the current month may include estimates for panel members for which reports were not received in time for tabulation. Such missing figures are "imputed" based on month-to-month movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous months may be revised as the result of corrected data from respondents, including the receipt of late reports for which imputations were made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment. The data are adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods. Since the calendar month accounting system prevails in this industry, adjustments have been made to those reporting on other than a calendar month basis.

EXPLANATION OF TERMS

Gross Shipments. Represents the quantity of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Receipts. Represents metal physically received, both from imports and from domestic sources. Metal received under toll arrangements, even though title or ownership of the metal may remain with the shipper, is also included.

Inventories. Includes all forms of scrap, ingot, metal in process, and finished products listed in this report. All metal physically in plant inventories at the end of the month whether or not title or ownership of the metal may have been transferred, including toll arrangements.

Integrated Producers. Companies in the United States that produce primary aluminum ingot (from alumina) and also produce mill products.

Nonintegrated Producers. Companies which produce mill products in the United States and which are not affiliated with a domestic primary ingot producer.

Smelters. Companies whose aluminum facilities in the United States are exclusively devoted to producing specification ingot from scrap.

Ingot (Billet), Extrusion. A solid or hollow cast form, usually cylindrical, suitable for extruding.

Other Ingot and Molten Metal, Primary and Secondary. Molten aluminum or a solid form (other than extrusion ingot) suitable for remelting or fabricating, produced either from alumina or from scrap; excludes remelt scrap ingot (RSI) which is considered scrap until remelted and cast into specification ingot.

Foil. A flat rolled product, rectangular in cross section, of thickness less than 0.006 inches.

Sheet. A rolled product, flat or coiled, rectangular in cross section, of 0.006 inches in thickness but under 0.250 inches in thickness.

Plate. A flat rolled product, rectangular in cross section, 0.250 inches or greater in thickness.

Wire. A solid wrought product that is long in relation to cross section, which is square, round, rectangular, hexagonal, or octagonal in shapes, whose diameter or greatest perpendicular distance between parallel faces (except for flattened wire) is less than 0.375 inches.

Rod and Bar (Rolled and/or Extruded). A solid round, square, rectangular, hexagon, or octagonal-shaped product that is long in relation to cross-section, 0.375 inches or greater in diameter or in at least one perpendicular distance between parallel faces,

produced by continuous casting or rolling or by extruding; other than drawing stock and D.C. cast ingot.

Drawing Stock (Redraw Rod) (Continuous Cast or Rolled). A solid round product that is long in relation to cross section, 0.375 inches or greater in diameter, produced by continuous casting followed by size-rolling or by rolling from D.C. cast ingot, suitable for drawing into wire.

Pipe and Tube (Extruded and Drawn). A hollow wrought product with a uniform wall thickness (except as affected by corner radii) that is long in relation to its cross-section, round, square, rectangular, hexagonal, octagonal, or elliptical in shape, produced either by hot extruding and/or brought to final dimensions by cold drawing through a die.

Extruded Shape. A product produced by extruding, that is long in relation to its cross-sectional dimension and has a cross section other than that of rod and bar and pipe and tube.

Cable, ACSR, and Aluminum (Bare). Aluminum stranded conductor reinforced by a core of steel (ACSR); or any other bare stranded aluminum conductor.

Powder, Atomized. Powder produced by blowing or asperating molten metal through an orifice.

Other Flake, Powder, and Paste. Includes the following products:

Powder. An aggregate of discrete particles of aluminum, substantially all of which are finer than 1,000 microns (minus 18 mesh).

Paste. A blend of powder or flake with a thinner or plasticizer.

Powder, Flaked. Powder consisting of flat or scale-like particles of a thickness small compared with other dimensions, produced by milling in the presence of a lubricant.

Forging (Excluding Impact Extrusions). A product worked to a predetermined shape by one or more processes such as hammering, upsetting, pressing, rolling, etc.

Impact (Excluding Collapsible Tubes and Cans). A product formed in a confining die from a metal slug, usually cold, by a rapid simple stroke application of force through a punch, causing the metal to flow around the punch, and/or through an opening in the punch or die.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output.* Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports.* Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports.* Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Export. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

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An annual Current Industrial Report also is published in this series. The annual report summarizes monthly figures and incorporates known revisions for both current and previous year. It also provides a single reference copy to replace the monthly publications.

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(MC)	Quinquennially	Census of Manufactures
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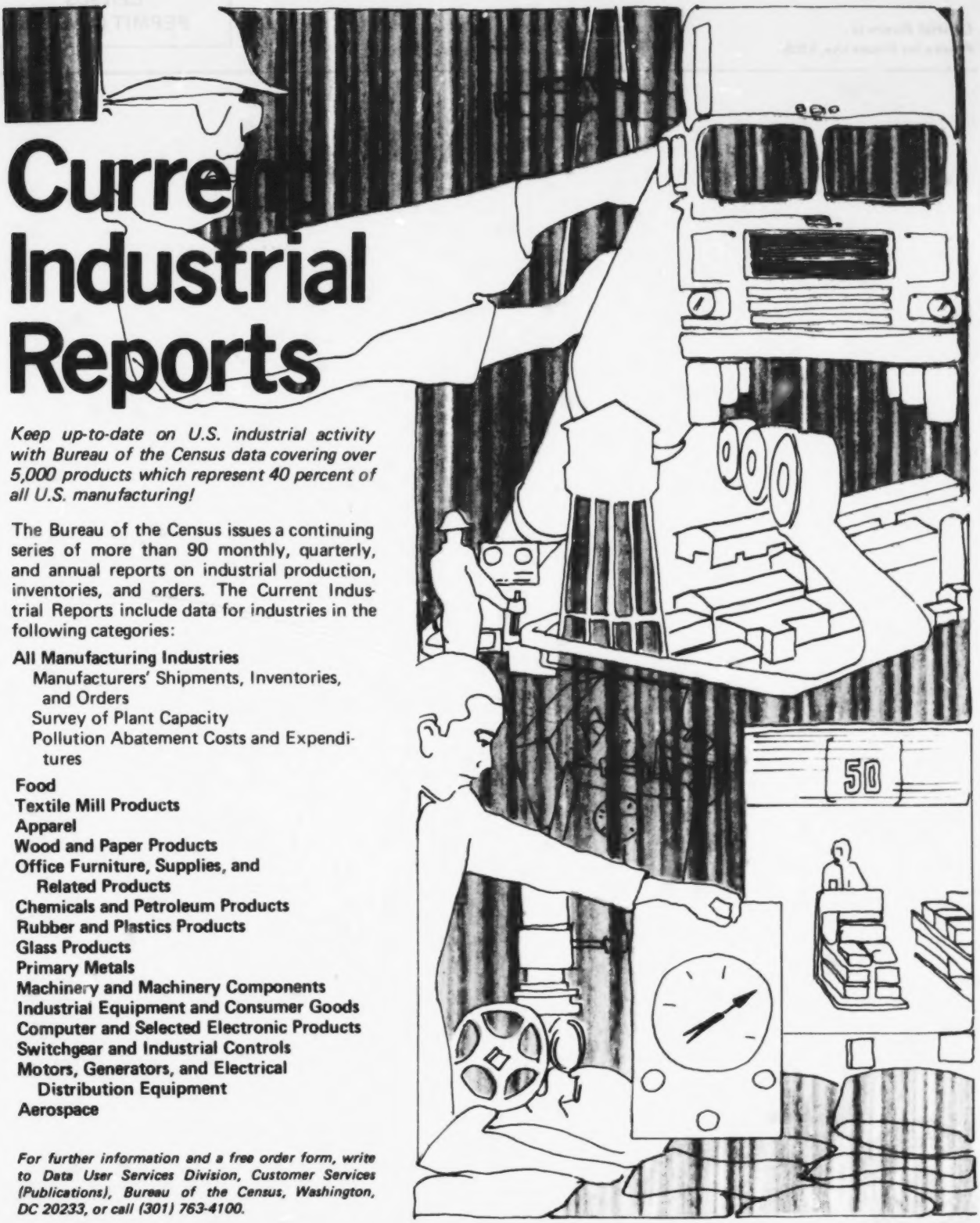

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CURRENT INDUSTRIAL REPORTS

Aluminum Ingot and Mill Products

FEBRUARY 1986

M33-2(86)-2
Issued April 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

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This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for March 1986 will be released on or about May 20, 1986. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986 AND 1985

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
February	1,151,296	891,006	260,290	5,138,849
January	1,173,815	945,604	228,211	5,160,740
1985				
December	1,034,772	817,534	217,238	5,160,320
November	1,121,099	852,060	269,039	5,245,781
October	1,267,088	976,105	290,983	5,337,033
September	1,257,858	918,284	339,574	5,437,689
August	1,221,993	965,281	256,712	5,488,521
July	1,195,127	933,559	261,568	5,574,930
June	1,191,462	933,380	258,082	5,595,827
May	1,293,544	989,891	303,653	5,684,076
April	1,216,352	976,933	239,419	5,727,806
March	1,290,447	985,980	304,467	5,799,577
February	1,129,109	874,290	254,819	5,819,877

[1] Of this total, net shipments of extrusion ingot was 32,000 for February 1986 and 20,993 for January 1986. Net shipments of other ingot was 228,281 for February 1986 and 207,218 for January 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
FEBRUARY 1986			
Aluminum ingot and mill products[1]	1,689,275	382,010	155,969
Integrated	1,087,198	(D)	(2)
Smelters	154,038	(D)	(2)
All other	448,039	216,372	(2)
Imports (ingot only)	221,316	-	(2)
Nonintegrated	226,723	216,372	(2)
Mill products[2]	953,605	62,599	(2)
By type of producer:			
Integrated	748,275	13,338	(2)
Nonintegrated	205,330	49,261	(2)
Ingot	735,670	319,411	155,969
By type of producer:			
Integrated	338,923	(D)	(D)
Smelters[3]	154,038	(D)	(D)
All other	242,709	167,111	(D)
Imports[4]	221,316	-	-
Nonintegrated	21,393	167,111	(D)
By type of ingot:			
Extrusion ingot	137,200	105,191	(5)
Integrated	67,126	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	96,882	(D)
Imports[4]	32,128	-	-
Nonintegrated	(D)	96,882	(D)
Other ingot (primary and secondary)	598,470	214,220	155,969
Integrated	271,797	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	70,229	(D)
Imports[4]	189,188	-	-
Nonintegrated	(D)	70,229	(D)
JANUARY 1986			
Aluminum ingot and mill products[1]	1,736,889	411,352	151,722
Integrated	1,147,408	(D)	(2)
Smelters	166,816	(D)	(2)
All other	422,665	225,552	(2)
Imports (ingot only)	180,425	-	(2)
Nonintegrated	242,240	225,552	(2)
Mill products[2]	1,007,459	61,855	(2)
By type of producer:			
Integrated	787,356	19,367	(2)
Nonintegrated	220,103	42,488	(2)
Ingot	729,430	349,497	151,722
By type of producer:			
Integrated	360,052	(D)	(D)
Smelters[3]	166,816	(D)	(D)
All other	202,562	183,064	(D)
Imports[4]	180,425	-	-
Nonintegrated	22,137	183,064	(D)
By type of ingot:			
Extrusion ingot	133,837	112,844	(5)
Integrated	65,790	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	95,465	(D)
Imports[4]	30,590	-	-
Nonintegrated	(D)	95,465	(D)
Other ingot (primary and secondary)	595,593	236,653	151,722
Integrated	294,262	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	87,599	(D)
Imports[4]	149,835	-	-
Nonintegrated	(D)	87,599	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 44.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	February 1986			January 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	953,605	62,599	891,006	1,007,459	61,855	945,604
	Sheet, plate, and foil	(NA)	548,135	27,780	520,355	573,641	32,727	540,914
	Sheet	(NA)	529,444	27,780	501,664	550,186	32,727	517,459
33532 21	Nonheat-treatable	23	511,610	27,780	483,830	529,925	32,727	497,198
33532 25	Heat-treatable	6	17,834	(1)	17,834	20,261	(1)	20,261
	Plate	(NA)	18,691	(1)	18,691	23,455	(1)	23,455
33531 15	Nonheat-treatable	8	4,611	(1)	4,611	7,847	(1)	7,847
33531 13	Heat-treatable	5	14,080	(1)	14,080	15,608	(1)	15,608
33533 51	Foil	14	75,062	(1)	75,062	73,337	(1)	73,337
	Rod, wire, and cable	(NA)	79,948	24,479	55,469	86,137	25,307	60,830
	Rod and bare wire	(NA)	35,833	24,479	11,354	35,173	25,307	9,866
33552 25	Drawing stock (redraw rod)	9	28,563	24,479	4,084	28,059	25,307	2,752
33551 31	Bare wire	20	7,270	(2)	7,270	7,114	(2)	7,114
	Cable and insulated wire	(NA)	44,115	-	44,115	50,964	-	50,964
33551 65	ACSR and aluminum cable, bare	11	16,394	-	16,394	21,086	-	21,086
33570 25	Wire and cable, insulated or covered	19	27,721	-	27,721	29,878	-	29,878
	Rod, bar, pipe, tube and shapes	(NA)	230,207	10,340	219,867	253,313	3,821	249,492
	Rod and bar (rolled and extruded)	(NA)	23,412	10,340	13,072	24,252	3,821	20,431
33541 15	Alloys other than 2,000 and 7,000 series	17	13,218	10,340	2,878	13,496	3,821	9,675
33541 18	Alloys in 2,000 and 7,000 series	7	10,194	(3)	10,194	10,756	(3)	10,756
	Pipe and tube (extruded and drawn)	(NA)	21,549	(3)	21,549	23,319	(3)	23,319
33542 43	Alloys other than 2,000 and 7,000 series	32	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	5	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	185,246	(3)	185,246	205,742	(3)	205,742
33541 25	Alloys other than 2,000 and 7,000 series	103	179,626	(3)	179,626	199,512	(3)	199,512
33541 28	Alloys in 2,000 and 7,000 series	6	5,620	(3)	5,620	6,230	(3)	6,230
	All other	(NA)	20,253	(3)	20,253	21,031	(3)	21,031
	Powder and paste	(NA)	8,235	(3)	8,235	8,276	(3)	8,276
33991 13	Atomized	6	6,069	(3)	6,069	6,058	(3)	6,058
33991 16	Other flake, powder and paste	6	2,166	-	2,166	2,218	-	2,218
	Forgings and impacts	(NA)	12,018	-	12,018	12,755	-	12,755
34631 21	Forgings	19	8,463	-	8,463	8,395	-	8,395
34631 41	Impacts	8	3,555	-	3,555	4,360	-	4,360

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in February 1986 are as follows: total, 10,415 thousand pounds; sheet, plate, and foil, 5,000 to 10,000 thousand pounds; redraw rod and wire, 2,000 to 5,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in January 1986 have been revised as follows: total, 9,653 thousand pounds; sheet, plate, and foil, 5,000 to 10,000 thousand pounds; redraw rod and wire, 1,000 to 2,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
FEBRUARY 1986						
Total	953,605	748,275	205,330	62,599	13,338	49,261
Sheet, plate, and foil	623,197	584,788	38,409	27,780	(D)	(D)
Drawing stock, wire, and cable	79,948	56,014	23,934	24,479	(D)	(D)
Rod and bare wire	35,833	27,315	8,518	24,479	(D)	(D)
Cable and insulated wire	44,115	28,699	15,416	-	-	-
Rod, bar, pipe, tube, and shapes	230,207	94,082	136,125	10,340	(D)	(D)
All other[1]	20,253	13,391	6,862	-	-	-
JANUARY 1986						
Total	1,007,459	787,356	220,103	61,855	19,367	42,488
Sheet, plate, and foil	646,978	611,401	35,577	32,727	(D)	(D)
Drawing stock, wire, and cable	86,137	64,364	21,773	25,307	(D)	(D)
Rod and bare wire	35,173	26,829	8,344	25,307	(D)	(D)
Cable and insulated wire	50,964	37,535	13,429	-	-	-
Rod, bar, pipe, tube, and shapes	253,313	98,032	155,281	3,821	(D)	(D)
All other[1]	21,031	13,559	7,472	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	February 1986				January 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,138,849	4,345,321	613,962	179,566	5,160,740	4,364,208	610,497	186,035
Ingot	2,048,647	1,724,604	252,856	71,187	2,166,664	1,827,335	258,883	80,446
Scrap	555,585	410,664	36,542	108,379	561,254	410,619	45,046	105,589
Other	2,534,617	2,210,053	324,564	-	2,432,822	2,126,254	306,568	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS[1]

(Thousands of pounds)

Product description	February 1986	January 1986
Ingot and mill products (excluding forgings, but including forging stock)	13,183	15,486
Sheet and plate	6,217	8,260
Other (including ingot)	6,966	7,226
Forgings and impacts	1,488	1,279

[1] Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3] [4]	Apparent consumption[5]	Percent imports to apparent consumption
	FEBRUARY 1986						
	Mill products[6]	851,267	38,328	4.5	90,351	903,290	10.0
33532 21 33532 25 33531 13 33531 15	Sheet and plate	520,355	33,088	6.4	68,743	556,010	12.4
33533 51	Foil	75,062	1,171	1.6	4,668	78,559	5.9
33552 25 33541 15 33541 18	Rod and bar	17,156	797	4.6	13,037	29,396	44.3
33551 31	Bare wire	7,270	445	6.1	593	7,418	8.0
33551 65	Bare cable	16,394	96	0.6	648	16,946	3.8
33541 25 33541 28	Extruded shapes	185,246	1,828	1.0	918	184,336	0.5
33542 43 33542 45	Pipe and tube (extruded and drawn)	21,549	508	2.4	549	21,590	2.5
33991 13 33991 16	Powder and paste	8,235	395	4.8	1,195	9,035	13.2
	JANUARY 1986						
	Mill products[6]	902,971	41,849	4.6	91,154	952,276	9.6
33532 21 33532 25 33531 13 33531 15	Sheet and plate	540,914	36,862	6.8	78,063	582,115	13.4
33533 51	Foil	73,337	610	0.8	5,021	77,748	6.4
33552 25 33541 15 33541 18	Rod and bar	23,183	1,105	4.8	2,842	24,920	11.4
33551 31	Bare wire	7,114	682	9.6	1,628	8,060	20.2
33551 65	Bare cable	21,086	28	0.1	459	21,517	2.1
33541 25 33541 28	Extruded shapes	205,742	1,801	0.9	1,596	205,537	0.8
33542 43 33542 45	Pipe and tube (extruded and drawn)	23,319	347	1.5	619	23,591	2.6
33991 13 33991 16	Powder and paste	8,276	414	5.0	926	8,788	10.5

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

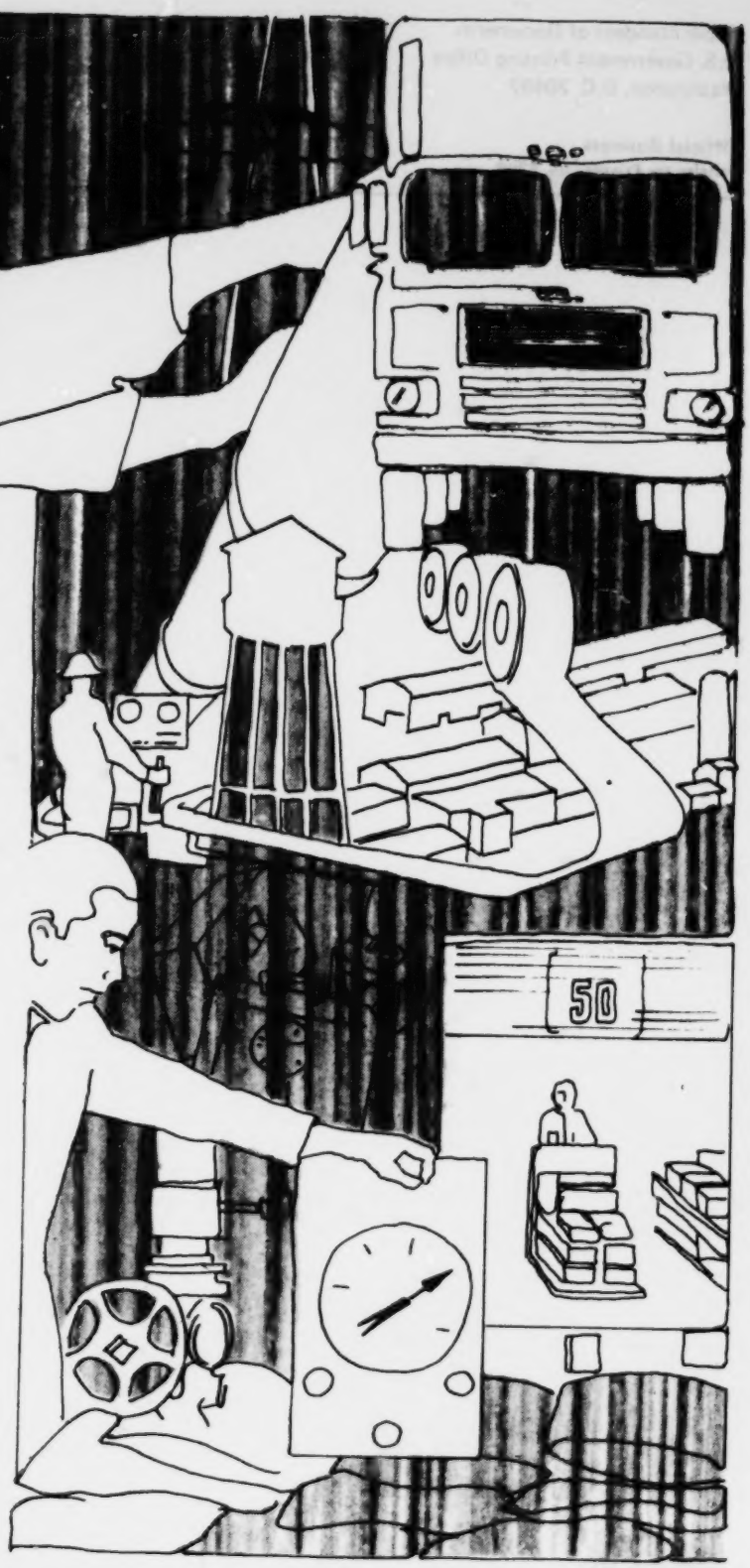
[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

Current Industrial Reports



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The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for April 1986 will be released on or about June 17, 1986. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986 AND 1985

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
March	1,388,968	1,032,552	356,416	5,046,192
February	1,168,307	913,192	255,115	5,158,217
January	1,173,815	945,604	228,211	5,160,740
1985[2]				
Total	14,462,024	11,091,503	3,370,521	(NA)
December	1,031,978	820,658	211,320	5,165,403
November	1,122,732	850,147	272,585	5,243,049
October	1,277,767	980,077	297,690	5,324,328
September	1,263,930	921,642	342,288	5,443,121
August	1,234,271	970,859	263,412	5,510,188
July	1,198,518	940,428	258,090	5,577,547
June	1,208,342	937,620	270,722	5,592,162
May	1,303,590	994,540	309,050	5,707,577
April	1,227,520	967,196	260,324	5,739,100
March	1,291,003	967,028	323,975	5,777,942
February	1,136,803	863,080	273,723	5,795,514
January	1,165,570	878,228	287,342	5,870,677

(NA) Not applicable.

[1]Of this total, net shipments of extrusion ingot was 15,712 for March 1986 and 34,468 for February 1986. Net shipments of other ingot was 340,704 for March 1986 and 220,647 for February 1986.

[2]Revisions based on the Aluminum Ingot and Mill Products Summary Report for 1985 which will be released later this year.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.

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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
MARCH 1986			
Aluminum ingot and mill products[1]	1,917,614	443,837	84,809
Integrated	1,214,813	(D)	(2)
Smelters	161,776	(D)	(2)
All other	541,025	221,251	(2)
Imports (ingot only)	280,841	-	(2)
Nonintegrated	260,184	221,251	(2)
Mill products[2]	1,094,303	61,751	(2)
By type of producer:			
Integrated	860,840	15,121	(2)
Nonintegrated	233,463	46,630	(2)
Ingot	823,311	382,086	84,809
By type of producer:			
Integrated	353,973	(D)	(D)
Smelters[3]	161,776	(D)	(D)
All other	307,562	174,621	(D)
Imports[4]	280,841	-	-
Nonintegrated	26,721	174,621	(D)
By type of ingot:			
Extrusion ingot	129,720	114,008	(5)
Integrated	64,238	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	95,287	(D)
Imports[4]	23,632	-	-
Nonintegrated	(D)	95,287	(D)
Other ingot (primary and secondary)	693,591	268,078	84,809
Integrated	289,735	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	79,334	(D)
Imports[4]	257,209	-	-
Nonintegrated	(D)	79,334	(D)
FEBRUARY 1986			
Aluminum ingot and mill products[1]	1,706,737	380,642	157,788
Integrated	1,087,091	(D)	(2)
Smelters	155,587	(D)	(2)
All other	464,059	215,006	(2)
Imports (ingot only)	221,316	-	(2)
Nonintegrated	242,743	215,006	(2)
Mill products[2]	968,148	54,956	(2)
By type of producer:			
Integrated	748,818	11,219	(2)
Nonintegrated	219,330	43,737	(2)
Ingot	738,589	325,686	157,788
By type of producer:			
Integrated	338,273	(D)	(D)
Smelters[3]	155,587	(D)	(D)
All other	244,729	171,269	(D)
Imports[4]	221,316	-	-
Nonintegrated	23,413	171,269	(D)
By type of ingot:			
Extrusion ingot	138,115	103,647	(5)
Integrated	66,576	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	94,834	(D)
Imports[4]	32,128	-	-
Nonintegrated	(D)	94,834	(D)
Other ingot (primary and secondary)	600,474	222,039	157,788
Integrated	271,697	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	76,435	(D)
Imports[4]	189,188	-	-
Nonintegrated	(D)	76,435	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.

[2] See table 3 for detailed figures.

[3] The number of smelter operators shipping ingot is 44.

[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.

[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reportidg shipments	March 1986			February 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	1,094,303	61,751	1,032,552	968,148	54,956	913,192
	Sheet, plate, and foil	(NA)	641,871	31,864	610,007	551,956	26,942	525,014
	Sheet	(NA)	616,968	31,864	585,104	533,265	26,942	506,323
33532 21	Nonheat-treatable	23	596,244	31,864	564,380	513,985	26,942	487,043
33532 25	Heat-treatable	6	20,724	(1)	20,724	19,280	(1)	19,280
	Plate	(NA)	24,903	(1)	24,903	18,691	(1)	18,691
33531 15	Nonheat-treatable	8	6,929	(1)	6,929	4,611	(1)	4,611
33531 13	Heat-treatable	5	17,974	(1)	17,974	14,080	(1)	14,080
33533 51	Foil	14	79,811	(1)	79,811	74,992	(1)	74,992
	Rod, wire, and cable	(NA)	95,666	26,130	69,536	79,821	24,116	55,705
	Rod and bare wire	(NA)	37,648	26,130	11,518	35,900	24,116	11,784
33552 25	Drawing stock (redraw rod)	9	29,204	26,130	3,074	28,525	24,116	4,409
33551 31	Bare wire	20	8,444	(2)	8,444	7,375	(2)	7,375
	Cable and insulated wire	(NA)	58,018	-	58,018	43,921	-	43,921
33551 65	ACSR and aluminum cable, bare	11	21,304	-	21,304	16,443	-	16,443
33570 25	Wire and cable, insulated or covered	19	36,714	-	36,714	27,478	-	27,478
	Rod, bar, pipe, tube and shapes	(NA)	256,055	3,757	252,298	241,624	3,898	237,726
	Rod and bar (rolled and extruded)	(NA)	25,241	3,757	21,484	23,449	3,898	19,551
33541 15	Alloys other than 2,000 and 7,000 series	17	14,335	3,757	10,578	13,255	3,898	9,357
33541 18	Alloys in 2,000 and 7,000 series	7	10,906	(3)	10,906	10,194	(3)	10,194
	Pipe and tube (extruded and drawn)	(NA)	22,689	(3)	22,689	21,520	(3)	21,520
33542 43	Alloys other than 2,000 and 7,000 series	32	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	5	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	208,125	(3)	208,125	196,655	(3)	196,655
33541 25	Alloys other than 2,000 and 7,000 series	103	202,046	(3)	202,046	191,035	(3)	191,035
33541 28	Alloys in 2,000 and 7,000 series	6	6,079	(3)	6,079	5,620	(3)	5,620
	All other	(NA)	20,900	(3)	20,900	19,755	(3)	19,755
	Powder and paste	(NA)	8,706	(3)	8,706	7,250	(3)	7,250
33991 13	Atomized	5	5,947	(3)	5,947	5,058	(3)	5,058
33991 16	Other flake, powder and paste	6	2,759	-	2,759	2,192	-	2,192
	Forgings and impacts	(NA)	12,194	-	12,194	12,505	-	12,505
34631 21	Forgings	19	8,186	-	8,186	8,549	-	8,549
34631 41	Impacts	8	4,008	-	4,008	3,956	-	3,956

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in March 1986 are as follows: total, 10,969 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in February 1986 have been revised as follows: total, 10,581 thousand pounds; sheet, plate, and foil, 5,000 to 10,000 thousand pounds; redraw rod and wire, 2,000 to 5,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
MARCH 1986						
Total	1,094,303	860,840	233,463	61,751	15,121	46,630
Sheet, plate, and foil	721,682	678,864	42,818	31,864	(D)	(D)
Drawing stock, wire, and cable	95,666	70,256	25,410	26,130	(D)	(D)
Rod and bare wire	37,648	27,607	10,041	26,130	(D)	(D)
Cable and insulated wire	58,018	42,649	15,369	-	-	-
Rod, bar, pipe, tube, and shapes	256,055	97,847	158,208	3,757	(D)	(D)
All other[1]	20,900	13,873	7,027	-	-	-
FEBRUARY 1986						
Total	968,148	748,818	219,330	54,956	11,219	43,737
Sheet, plate, and foil	626,948	585,232	41,716	26,942	(D)	(D)
Drawing stock, wire, and cable	79,821	56,014	23,934	24,116	(D)	(D)
Rod and bare wire	35,900	27,315	8,585	24,116	(D)	(D)
Cable and insulated wire	43,921	28,699	15,222	-	-	-
Rod, bar, pipe, tube, and shapes	241,624	94,181	147,443	3,898	(D)	(D)
All other[1]	19,755	13,391	6,364	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	March 1986				February 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,046,192	4,242,968	627,707	175,517	5,158,217	4,351,290	627,554	179,373
Ingot	1,853,752	1,550,073	224,722	78,957	2,038,234	1,726,155	238,028	74,051
Scrap	522,356	377,330	48,466	96,560	561,996	410,582	46,092	105,322
Other	2,670,084	2,315,565	354,519	-	2,557,987	2,214,553	343,434	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS[1]

(Thousands of pounds)

Product description	March 1986	February 1986
Ingot and mill products (excluding forgings, but including forging stock)	10,657	12,240
Sheet and plate	5,319	5,274
Other (including ingot)	5,338	6,966
Forgings and impacts	1,229	1,488

[1] Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3,4]	Apparent consumption[5]	Percent imports to apparent consumption
	MARCH 1986						
	Mill products[6]	983,644	30,087	3.1	88,801	1,042,358	8.5
33532 21 33532 25 33531 13 33531 15	Sheet and plate	610,007	25,117	4.1	67,856	652,746	10.4
33533 51	Foil	79,811	899	1.1	4,076	82,988	4.9
33552 25 33541 15 33541 18	Rod and bar	24,558	991	4.0	11,411	34,978	32.6
33551 31	Bare wire	8,444	1,044	12.4	1,162	8,562	13.6
33551 65	Bare cable	21,304	40	0.2	574	21,838	2.6
33541 25 33541 28	Extruded shapes	208,125	979	0.5	1,445	208,591	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,689	605	2.7	966	23,050	4.2
33991 13 33991 16	Powder and paste	8,706	412	4.7	1,311	9,605	13.6
	FEBRUARY 1986						
	Mill products[6]	873,209	38,328	4.4	90,351	925,232	9.8
33532 21 33532 25 33531 13 33531 15	Sheet and plate	525,014	33,088	6.3	68,743	560,669	12.3
33533 51	Foil	74,992	1,171	1.6	4,668	78,489	5.9
33552 25 33541 15 33541 18	Rod and bar	23,960	797	3.3	13,037	36,200	36.0
33551 31	Bare wire	7,375	445	6.0	593	7,523	7.9
33551 65	Bare cable	16,443	96	0.6	648	16,995	3.8
33541 25 33541 28	Extruded shapes	196,655	1,828	0.9	918	195,745	0.5
33542 43 33542 45	Pipe and tube (extruded and drawn)	21,520	508	2.4	549	21,561	2.5
33991 13 33991 16	Powder and paste	7,250	395	5.4	1,195	8,050	14.8

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

Table 8. NET SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS: 1985

(In thousands of pounds)

Product description	Quantity	Product description	Quantity
Aluminum ingot and mill products	14,462,024	Aluminum mill products--Continued	
Ingot	3,370,521	Rod, bar, pipe, tube, and shapes	2,793,853
Extrusion ingot	215,880		
Other ingot (primary and secondary)	3,154,641	Rod and bar (rolled and extruded)	191,320
		Alloys other than 2000 and 7000 series[3]	81,331
Aluminum mill products	11,091,503	Alloys in 2000 and 7000 series	109,989
Sheet and plate	6,442,229		
Sheet	6,184,393	Pipe and tube (extruded and drawn)	249,274
Nonheat-treatable[1]	5,964,284	Alloys other than 2000 and 7000 series	238,631
Heat-treatable	220,111	Alloys in 2000 and 7000 series	10,643
Plate	257,834		
Nonheat-treatable	74,404	Extruded shapes	2,353,259
Heat-treatable	183,430	Alloys other than 2000 and 7000 series	2,285,748
		Alloys in 2000 and 7000 series	67,511
Foil	812,806		
		All other	255,999
Rod, wire, and cable	786,616	Powder and paste	107,267
Rod and bare wire	113,429	Atomized	72,675
Drawing stock (redraw rod)[2]	27,183	Other flake, powder, and paste	34,592
Bare wire	86,246		
Cable and insulated wire	673,187	Forgings and impacts	148,732
ACSR and aluminum cable, bare	276,986	Forgings	108,327
Wire and cable, insulated or covered	396,201	Impacts	40,405

Note: The statistics on this table are preliminary and represent selected data on aluminum ingot and mill products. More detailed data will be published in the final summary report for 1985 which will be released later this year.

Net shipments of ingot are derived by subtracting both domestic and import receipts from gross shipments. For mill products, net shipments are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[1]Domestic receipts of heat-treatable sheet, nonheat-treatable plate, heat-treatable plate and foil are subtracted from nonheat-treatable sheet to avoid disclosing figures for individual companies.

[2]Domestic receipts of bare wire and ASCR and aluminum cable, bare are subtracted from drawing stock to avoid disclosing figures for individual companies.

[3]Other receipts are subtracted from rod and bar (alloys other than 2,000 and 7,000 series) to avoid disclosing figures for individual companies.

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Aluminum Ingot and Mill Products

APRIL 1986

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BUREAU OF THE CENSUS

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Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986 AND 1985

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
April	1,317,233	1,060,826	256,407	5,096,307
March	1,379,215	1,029,582	349,633	5,053,946
February	1,168,307	913,192	255,115	5,158,217
January	1,173,815	945,604	228,211	5,160,740
1985[2]				
Total	14,462,024	11,091,503	3,370,521	(NA)
December	1,031,978	820,658	211,320	5,165,403
November	1,122,732	850,147	272,585	5,240,716
October	1,277,767	980,077	297,690	5,324,328
September	1,263,930	921,642	342,288	5,439,082
August	1,234,271	970,859	263,412	5,511,738
July	1,198,518	940,428	258,090	5,578,681
June	1,208,342	937,620	270,722	5,595,244
May	1,303,590	994,540	309,050	5,712,103
April	1,227,520	967,196	260,324	5,748,976
March	1,291,003	967,028	323,975	5,795,796
February	1,136,803	863,080	273,723	5,824,039
January	1,165,570	878,228	287,342	5,900,182

(NA) Not applicable.

[1]Of this total, net shipments of extrusion ingot was 18,065 for April 1986 and 8,577 for March 1986. Net shipments of other ingot was 238,342 for April 1986 and 341,056 for March 1986.

[2]Revisions based on the Aluminum Ingot and Mill Products Summary Report for 1985 which will be released later this year.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.

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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
APRIL 1986			
Aluminum ingot and mill products[1]	1,895,763	404,767	173,763
Integrated	1,186,013	(D)	(2)
Smelters	152,729	(D)	(2)
All other	557,021	227,016	(2)
Imports (ingot only)	288,324	-	(2)
Nonintegrated	268,697	227,016	(2)
Mill products[2]	1,126,861	66,035	(2)
By type of producer:			
Integrated	885,566	18,078	(2)
Nonintegrated	241,295	47,957	(2)
Ingot	768,902	338,732	173,763
By type of producer:			
Integrated	300,447	(D)	(D)
Smelters[3]	152,729	(D)	(D)
All other	315,726	179,059	(D)
Imports[4]	288,324	-	-
Nonintegrated	27,402	179,059	(D)
By type of ingot:			
Extrusion ingot	134,404	116,339	(5)
Integrated	64,977	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	96,514	(D)
Imports[4]	26,812	-	-
Nonintegrated	(D)	96,514	(D)
Other ingot (primary and secondary)	634,498	222,393	173,763
Integrated	235,470	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	82,545	(D)
Imports[4]	261,512	-	-
Nonintegrated	(D)	82,545	(D)
MARCH 1986			
Aluminum ingot and mill products[1]	1,907,756	442,036	86,505
Integrated	1,207,633	(D)	(2)
Smelters	160,165	(D)	(2)
All other	539,958	221,096	(2)
Imports (ingot only)	280,841	-	(2)
Nonintegrated	259,117	221,096	(2)
Mill products[2]	1,092,589	63,007	(2)
By type of producer:			
Integrated	859,032	16,385	(2)
Nonintegrated	233,557	46,622	(2)
Ingot	815,167	379,029	86,505
By type of producer:			
Integrated	348,601	(D)	(D)
Smelters[3]	160,165	(D)	(D)
All other	306,401	174,474	(D)
Imports[4]	280,841	-	-
Nonintegrated	25,560	174,474	(D)
By type of ingot:			
Extrusion ingot	122,437	113,860	(5)
Integrated	58,010	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	95,035	(D)
Imports[4]	23,632	-	-
Nonintegrated	(D)	95,035	(D)
Other ingot (primary and secondary)	692,730	265,169	86,505
Integrated	290,591	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	79,439	(D)
Imports[4]	257,209	-	-
Nonintegrated	(D)	79,439	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 44.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	April 1986			March 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	1,126,861	66,035	1,060,826	1,092,589	63,007	1,029,582
	Sheet, plate, and foil	(NA)	660,754	39,665	621,089	642,037	33,131	608,906
	Sheet	(NA)	634,873	39,665	595,208	617,134	33,131	584,003
33532 21	Nonheat-treatable	23	613,360	39,665	573,695	596,410	33,131	563,279
33532 25	Heat-treatable	6	21,513	(1)	21,513	20,724	(1)	20,724
	Plate	(NA)	25,881	(1)	25,881	24,903	(1)	24,903
33531 15	Nonheat-treatable	8	8,331	(1)	8,331	6,929	(1)	6,929
33531 13	Heat-treatable	5	17,550	(1)	17,550	17,974	(1)	17,974
33533 51	Foil	14	79,573	(1)	79,573	79,548	(1)	79,548
	Rod, wire, and cable	(NA)	98,310	22,131	76,179	95,756	26,119	69,637
	Rod and bare wire	(NA)	37,874	22,131	15,743	37,729	26,119	11,610
33552 25	Drawing stock (redraw rod)	9	29,111	22,131	6,980	29,204	26,119	3,085
33551 31	Bare wire	20	8,763	(2)	8,763	8,525	(2)	8,525
	Cable and insulated wire	(NA)	60,436	-	60,436	58,027	-	58,027
33551 65	ACSR and aluminum cable, bare	11	23,509	-	23,509	21,304	-	21,304
33570 25	Wire and cable, insulated or covered	19	36,927	-	36,927	36,723	-	36,723
	Rod, bar, pipe, tube and shapes	(NA)	264,639	4,239	260,400	254,400	3,757	250,643
	Rod and bar (rolled and extruded)	(NA)	23,714	4,239	19,475	25,080	3,757	21,323
33541 15	Alloys other than 2,000 and 7,000 series	17	13,507	4,239	9,268	14,174	3,757	10,417
33541 18	Alloys in 2,000 and 7,000 series	7	10,207	(3)	10,207	10,906	(3)	10,906
	Pipe and tube (extruded and drawn)	(NA)	23,314	(3)	23,314	22,408	(3)	22,408
33542 43	Alloys other than 2,000 and 7,000 series	32	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	5	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	217,611	(3)	217,611	206,912	(3)	206,912
33541 25	Alloys other than 2,000 and 7,000 series	103	211,153	(3)	211,153	200,833	(3)	200,833
33541 28	Alloys in 2,000 and 7,000 series	6	6,458	(3)	6,458	6,079	(3)	6,079
	All other	(NA)	23,585	(3)	23,585	20,848	(3)	20,848
	Powder and paste	(NA)	10,516	(3)	10,516	8,706	(3)	8,706
33991 13	Atomized	5	6,639	(3)	6,639	5,947	(3)	5,947
33991 16	Other flake, powder and paste	6	3,877	-	3,877	2,759	-	2,759
	Forgings and impacts	(NA)	13,069	-	13,069	12,142	-	12,142
34631 21	Forgings	19	8,382	-	8,382	8,134	-	8,134
34631 41	Impacts	8	4,687	-	4,687	4,008	-	4,008

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in April 1986 are as follows: total, 9,290 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in March 1986 have been revised as follows: total, 10,910 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1]Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2]Data included with drawing stock to avoid disclosing figures for individual companies.
[3]Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
APRIL 1986						
Total	1,126,861	885,566	241,295	66,035	18,078	47,957
Sheet, plate, and foil	740,327	696,286	44,041	39,665	(D)	(D)
Drawing stock, wire, and cable	98,310	73,151	25,159	22,131	(D)	(D)
Rod and bare wire	37,874	28,507	9,367	22,131	(D)	(D)
Cable and insulated wire	60,436	44,644	15,792	-	-	-
Rod, bar, pipe, tube, and shapes	264,639	100,141	164,498	4,239	(D)	(D)
All other[1]	23,585	15,988	7,597	-	-	-
MARCH 1986						
Total	1,092,589	859,032	233,557	63,007	16,385	46,622
Sheet, plate, and foil	721,585	678,767	42,818	33,131	(D)	(D)
Drawing stock, wire, and cable	95,756	70,256	25,500	26,119	(D)	(D)
Rod and bare wire	37,729	27,607	10,122	26,119	(D)	(D)
Cable and insulated wire	58,027	42,649	15,378	-	-	-
Rod, bar, pipe, tube, and shapes	254,400	96,136	158,264	3,757	(D)	(D)
All other[1]	20,848	13,873	6,975	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	April 1986				March 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,096,307	4,273,692	636,259	186,356	5,053,946	4,247,694	629,493	176,759
Ingot	1,790,374	1,473,327	237,762	79,285	1,865,019	1,554,866	234,436	75,717
Scrap	562,470	419,218	36,181	107,071	521,420	376,811	43,567	101,042
Other	2,743,463	2,381,147	362,316	-	2,667,507	2,316,017	351,490	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS[1]

(Thousands of pounds)

Product description	April 1986	March 1986
Ingot and mill products (excluding forgings, but including forging stock)	10,749	10,594
Sheet and plate	5,440	5,319
Other (including ingot)	5,309	5,275
Forgings and impacts	1,162	1,229

[1] Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	APRIL 1986						
	Mill products[6]	1,010,830	39,129	3.9	73,941	1,045,642	7.1
33532 21 33532 25 33531 13 33531 15	Sheet and plate	621,089	32,662	5.2	61,417	649,844	9.4
33533 51	Foil	79,573	1,569	2.0	3,678	81,682	4.5
33552 25 33541 15 33541 18	Rod and bar	26,455	1,930	7.3	5,458	29,983	18.2
33551 31	Bare wire	8,763	576	6.6	795	8,982	8.8
33551 65	Bare cable	23,509	53	0.2	397	23,853	1.7
33541 25 33541 28	Extruded shapes	217,611	792	0.4	877	217,696	0.4
33542 43 33542 45	Pipe and tube (extruded and drawn)	23,314	711	3.0	495	23,098	2.1
33991 13 33991 16	Powder and paste	10,516	836	7.9	824	10,504	7.8
	MARCH 1986						
	Mill products[6]	980,717	30,087	3.1	88,801	1,039,431	8.5
33532 21 33532 25 33531 13 33531 15	Sheet and plate	608,906	25,117	4.1	67,856	651,645	10.4
33533 51	Foil	79,548	899	1.1	4,076	82,725	4.9
33552 25 33541 15 33541 18	Rod and bar	24,408	991	4.1	11,411	34,828	32.8
33551 31	Bare wire	8,525	1,044	12.2	1,162	8,643	13.4
33551 65	Bare cable	21,304	40	0.2	574	21,838	2.6
33541 25 33541 28	Extruded shapes	206,912	979	0.5	1,445	207,378	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,408	605	2.7	966	22,769	4.2
33991 13 33991 16	Powder and paste	8,706	412	4.7	1,311	9,605	13.6

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

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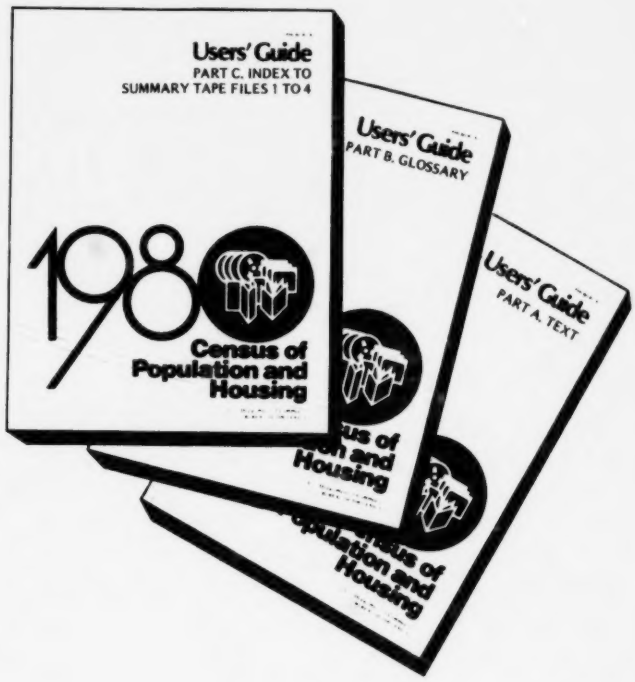

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Aluminum Ingot and Mill Products

MAY 1986

M33-2(86)-5
Issued July 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for June 1986 will be released on or about August 19, 1986. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
May	1,379,302	1,080,309	298,993	5,027,556
April	1,322,727	1,063,924	258,803	5,097,413
March	1,379,215	1,029,582	349,633	5,053,946
February	1,168,307	913,192	255,115	5,158,217
January	1,173,815	945,604	228,211	5,160,740

[1]Of this total, net shipments of extrusion ingot was 19,452 for May 1986 and 25,973 for April 1986. Net shipments of other ingot was 279,541 for May 1986 and 232,830 for April 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
MAY 1986			
Aluminum ingot and mill products[1]	1,958,906	423,855	155,749
Integrated	1,225,708	(D)	(2)
Smelters	149,892	(D)	(2)
All other	583,306	202,031	(2)
Imports (ingot only)	329,451	-	-
Nonintegrated	253,855	202,031	(2)
Mill products[2]	1,153,381	73,072	(2)
By type of producer:			
Integrated	917,822	29,390	(2)
Nonintegrated	235,559	43,682	(2)
Ingot	805,525	350,783	155,749
By type of producer:			
Integrated	307,886	(D)	(D)
Smelters[3]	149,892	(D)	(D)
All other	347,747	158,349	(D)
Imports[4]	329,451	-	-
Nonintegrated	18,296	158,349	(D)
By type of ingot:			
Extrusion ingot	130,045	110,593	(5)
Integrated	67,325	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	87,645	(D)
Imports[4]	30,003	-	-
Nonintegrated	(D)	87,645	(D)
Other ingot (primary and secondary)	675,480	240,190	155,749
Integrated	240,561	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	70,704	(D)
Imports[4]	299,448	-	-
Nonintegrated	(D)	70,704	(D)
APRIL 1986			
Aluminum ingot and mill products[1]	1,893,926	396,955	174,244
Integrated	1,183,225	(D)	(2)
Smelters	152,618	(D)	(2)
All other	558,083	228,758	(2)
Imports (ingot only)	288,324	-	-
Nonintegrated	269,759	228,758	(2)
Mill products[2]	1,126,922	62,998	(2)
By type of producer:			
Integrated	883,296	15,218	(2)
Nonintegrated	243,626	47,780	(2)
Ingot	767,004	333,957	174,244
By type of producer:			
Integrated	299,929	(D)	(D)
Smelters[3]	152,618	(D)	(D)
All other	314,457	180,978	(D)
Imports[4]	288,324	-	-
Nonintegrated	26,133	180,978	(D)
By type of ingot:			
Extrusion ingot	142,032	116,059	(5)
Integrated	73,002	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	96,633	(D)
Imports[4]	26,812	-	-
Nonintegrated	(D)	96,633	(D)
Other ingot (primary and secondary)	624,972	217,898	174,244
Integrated	226,927	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	84,345	(D)
Imports[4]	261,512	-	-
Nonintegrated	(D)	84,345	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 44.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	May 1986			April 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	1,153,381	73,072	1,080,309	1,126,922	62,998	1,063,924
	Sheet, plate, and foil	(NA)	772,427	42,717	729,710	739,586	36,405	703,181
	Sheet	(NA)	670,281	42,717	627,564	634,132	36,405	597,727
33532 21	Nonheat-treatable	23	641,648	42,717	598,931	612,619	36,405	576,214
33532 25	Heat-treatable	6	28,633	(1)	28,633	21,513	(1)	21,513
	Plate	(NA)	24,980	(1)	24,980	25,881	(1)	25,881
33531 15	Nonheat-treatable	8	7,994	(1)	7,994	8,331	(1)	8,331
33531 13	Heat-treatable	5	16,986	(1)	16,986	17,550	(1)	17,550
33533 51	Foil	14	77,166	(1)	77,166	79,573	(1)	79,573
	Rod, wire, and cable	(NA)	96,975	25,001	71,974	98,366	21,995	76,371
	Rod and bare wire	(NA)	39,756	25,001	14,755	37,792	21,995	15,797
33552 25	Drawing stock (redraw rod)	9	30,495	25,001	5,494	29,108	21,995	7,113
33551 31	Bare wire	20	9,261	(2)	9,261	8,684	(2)	8,684
	Cable and insulated wire	(NA)	57,219	-	57,219	60,574	-	60,574
33551 65	ACSR and aluminum cable, bare	11	24,528	-	24,528	23,509	-	23,509
33570 25	Wire and cable, insulated or covered	19	32,691	-	32,691	37,065	-	37,065
	Rod, bar, pipe, tube and shapes	(NA)	260,449	5,354	255,095	266,062	4,598	261,464
	Rod and bar (rolled and extruded)	(NA)	24,542	5,354	19,188	23,824	4,598	19,226
33541 15	Alloys other than 2,000 and 7,000 series	17	13,793	5,354	8,439	13,640	4,598	9,042
33541 18	Alloys in 2,000 and 7,000 series	7	10,749	(3)	10,749	10,184	(3)	10,184
	Pipe and tube (extruded and drawn)	(NA)	24,480	(3)	24,480	23,070	(3)	23,070
33542 43	Alloys other than 2,000 and 7,000 series	32	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	5	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	211,427	(3)	211,427	219,168	(3)	219,168
33541 25	Alloys other than 2,000 and 7,000 series	103	205,772	(3)	205,772	212,713	(3)	212,713
33541 28	Alloys in 2,000 and 7,000 series	6	5,655	(3)	5,655	6,455	(3)	6,455
	All other	(NA)	23,530	(3)	23,530	22,908	(3)	22,908
	Powder and paste	(NA)	11,274	(3)	11,274	9,633	(3)	9,633
33991 13	Atomized	5	8,054	(3)	8,054	6,107	(3)	6,107
33991 16	Other flake, powder and paste	6	3,220	-	3,220	3,526	-	3,526
	Forgings and impacts	(NA)	12,256	-	12,256	13,275	-	13,275
34631 21	Forgings	19	7,637	-	7,637	8,566	-	8,566
34631 41	Impacts	8	4,619	-	4,619	4,709	-	4,709

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in May 1986 are as follows: total, 12,335 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in April 1986 have been revised as follows: total, 9,411 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1]Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2]Data included with drawing stock to avoid disclosing figures for individual companies.
[3]Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
MAY 1986						
Total	1,153,381	917,822	235,559	73,072	29,390	43,682
Sheet, plate, and foil	772,427	729,229	43,198	42,717	(D)	(D)
Drawing stock, wire, and cable	96,975	73,628	23,347	25,001	(D)	(D)
Rod and bare wire	39,756	31,265	8,491	25,001	(D)	(D)
Cable and insulated wire	57,219	42,363	14,856	-	-	-
Rod, bar, pipe, tube, and shapes	260,449	99,591	160,858	5,354	(D)	(D)
All other[1]	23,530	15,374	8,156	-	-	-
APRIL 1986						
Total	1,126,922	883,296	243,626	62,998	15,218	47,780
Sheet, plate, and foil	739,586	695,687	43,899	36,405	(D)	(D)
Drawing stock, wire, and cable	98,366	73,147	25,219	21,995	(D)	(D)
Rod and bare wire	37,792	28,503	9,289	21,995	(D)	(D)
Cable and insulated wire	60,574	44,644	15,930	-	-	-
Rod, bar, pipe, tube, and shapes	266,062	99,527	166,535	4,598	(D)	(D)
All other[1]	22,908	14,935	7,973	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	May 1986				April 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,027,556	4,186,701	650,010	190,845	5,097,413	4,272,963	639,303	185,147
Ingot	1,785,407	1,462,200	232,429	90,778	1,794,568	1,473,346	233,177	88,045
Scrap	575,996	421,432	54,497	100,067	560,327	419,179	44,046	97,102
Other	2,666,153	2,303,069	363,084	-	2,742,518	2,380,438	362,080	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS[1]

(Thousands of pounds)

Product description	May 1986	April 1986
Ingot and mill products (excluding forgings, but including forging stock)	12,807	10,800
Sheet and plate	5,493	5,440
Other (including ingot)	7,314	5,360
Forgings and impacts	1,135	1,162

[1] Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	MAY 1986						
	Mill products[6]	1,035,362	40,499	3.9	95,187	1,090,050	8.7
33532 21 33532 25 33531 13 33531 15	Sheet and plate	652,544	35,018	5.4	65,127	682,653	9.5
33533 51	Foil	77,166	1,472	1.9	5,389	81,083	6.6
33552 25 33541 15 33541 18	Rod and bar	24,682	1,460	5.9	16,082	39,304	40.9
33551 31	Bare wire	9,261	310	3.3	1,055	10,006	10.5
33551 65	Bare cable	24,528	26	0.1	217	24,719	0.9
33541 25 33541 28	Extruded shapes	211,427	1,092	0.5	1,438	211,773	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	24,480	474	1.9	5,099	29,105	17.5
33991 13 33991 16	Powder and paste	11,274	647	5.7	780	11,407	6.8
	APRIL 1986						
	Mill products[6]	1,013,384	39,129	3.9	73,941	1,048,396	7.1
33532 21 33532 25 33531 13 33531 15	Sheet and plate	623,608	32,662	5.2	61,417	652,363	9.4
33533 51	Foil	79,573	1,569	2.0	3,678	81,682	4.5
33552 25 33541 15 33541 18	Rod and bar	26,339	1,930	7.3	5,458	29,867	18.3
33551 31	Bare wire	8,684	576	6.6	795	8,903	8.9
33551 65	Bare cable	23,509	53	0.2	397	23,853	1.7
33541 25 33541 28	Extruded shapes	219,168	792	0.4	877	219,253	0.4
33542 43 33542 45	Pipe and tube (extruded and drawn)	23,070	711	3.1	495	22,854	2.2
33991 13 33991 16	Powder and paste	9,633	836	8.7	824	9,621	8.6

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table B in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

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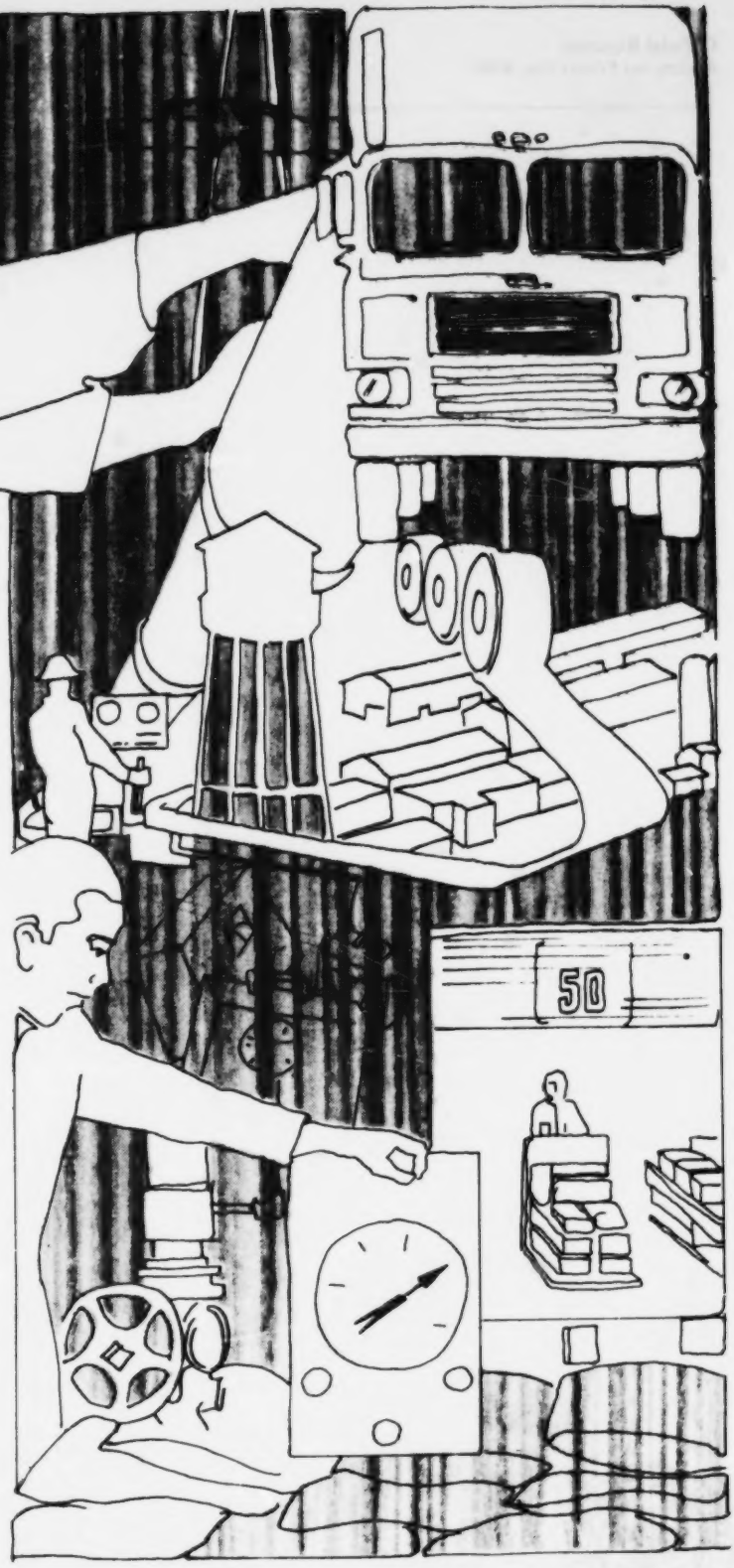

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CURRENT INDUSTRIAL REPORTS

Aluminum Ingot and Mill Products

JUNE 1986

M33-2(86)-6
Issued September 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

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Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
June	1,200,520	952,542	247,978	5,047,001
May	1,368,721	1,086,071	282,650	5,044,774
April	1,322,727	1,063,924	258,803	5,097,413
March	1,379,215	1,029,582	349,633	5,053,946
February	1,168,307	913,192	255,115	5,158,217
January	1,173,815	945,604	228,211	5,160,740

[1] Of this total, net shipments of extrusion ingot was 6,742 for June 1986 and 24,145 for May 1986. Net shipments of other ingot was 241,236 for June 1986 and 258,505 for May 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
JUNE 1986			
Aluminum ingot and mill products[1]	1,712,211	388,904	122,787
Integrated	973,766	(D)	(2)
Smelters	135,959	(D)	(2)
All other	602,486	220,903	(2)
Imports (ingot only)	317,693	-	-
Nonintegrated	284,793	220,903	(2)
Mill products[2]	1,017,444	64,902	(2)
By type of producer:			
Integrated	755,084	19,003	(2)
Nonintegrated	262,360	45,899	(2)
Ingot	694,767	324,002	122,787
By type of producer:			
Integrated	218,682	(D)	(D)
Smelters[3]	135,959	(D)	(D)
All other	340,126	175,004	(D)
Imports[4]	317,693	-	-
Nonintegrated	22,433	175,004	(D)
By type of ingot:			
Extrusion ingot	124,658	117,916	(5)
Integrated	60,157	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	99,034	(D)
Imports[4]	25,523	-	-
Nonintegrated	(D)	99,034	(D)
Other ingot (primary and secondary)	570,109	206,086	122,787
Integrated	158,525	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	75,970	(D)
Imports[4]	292,170	-	-
Nonintegrated	(D)	75,970	(D)
MAY 1986			
Aluminum ingot and mill products[1]	1,969,038	445,197	155,120
Integrated	1,225,958	(D)	(2)
Smelters	148,285	(D)	(2)
All other	594,795	226,304	(2)
Imports (ingot only)	329,451	-	-
Nonintegrated	265,344	226,304	(2)
Mill products[2]	1,160,059	73,988	(2)
By type of producer:			
Integrated	917,413	23,867	(2)
Nonintegrated	242,646	50,121	(2)
Ingot	808,979	371,209	155,120
By type of producer:			
Integrated	308,545	(D)	(D)
Smelters[3]	148,285	(D)	(D)
All other	352,149	176,183	(D)
Imports[4]	329,451	-	-
Nonintegrated	22,698	176,183	(D)
By type of ingot:			
Extrusion ingot	139,073	114,928	(5)
Integrated	67,984	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	92,359	(D)
Imports[4]	30,003	-	-
Nonintegrated	(D)	92,359	(D)
Other ingot (primary and secondary)	669,906	256,281	155,120
Integrated	240,561	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	83,824	(D)
Imports[4]	299,448	-	-
Nonintegrated	(D)	83,824	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 44.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	June 1986			May 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	1,01/,444	64,902	952,542	1,160,059	73,988	1,086,071
	Sheet, plate, and foil	(NA)	647,793	37,018	610,775	773,525	42,385	731,140
	Sheet and plate	(NA)	576,905	37,018	539,887	696,364	42,385	653,979
	Sheet	(NA)	559,498	37,018	522,480	671,384	42,385	628,999
33532 21	Nonheat-treatable	23	543,766	37,018	506,748	642,751	42,385	600,366
33532 25	Heat-treatable	6	15,732	(1)	15,732	28,633	(1)	28,633
	Plate	(NA)	17,407	(1)	17,407	24,980	(1)	24,980
33531 15	Nonheat-treatable	8	4,620	(1)	4,620	7,994	(1)	7,994
33531 13	Heat-treatable	5	12,787	(1)	12,787	16,986	(1)	16,986
33533 51	Foil	14	70,888	(1)	70,888	77,161	(1)	77,161
	Rod, wire, and cable	(NA)	80,383	22,415	57,968	98,197	26,376	71,821
	Rod and bare wire	(NA)	26,970	22,415	4,555	40,696	26,376	14,320
33552 25	Drawing stock (redraw rod)	9	17,502	22,415	-4,913	30,495	26,376	4,119
33551 31	Bare wire	20	9,468	(2)	9,468	10,201	(2)	10,201
	Cable and insulated wire	(NA)	53,413	-	53,413	57,501	-	57,501
33551 65	ACSR and aluminum cable, bare	11	18,546	-	18,546	24,527	-	24,527
33570 25	Wire and cable, insulated or covered	19	34,867	-	34,867	32,974	-	32,974
	Rod, bar, pipe, tube and shapes	(NA)	268,875	5,469	263,406	265,051	5,227	259,824
	Rod and bar (rolled and extruded)	(NA)	18,899	5,469	13,430	24,514	5,227	19,287
33541 15	Alloys other than 2,000 and 7,000 series	17	10,906	5,469	5,437	13,765	5,227	8,538
33541 18	Alloys in 2,000 and 7,000 series	7	7,993	(3)	7,993	10,749	(3)	10,749
	Pipe and tube (extruded and drawn)	(NA)	21,548	(3)	21,548	24,457	(3)	24,457
33542 43	Alloys other than 2,000 and 7,000 series	32	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	5	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	228,428	(3)	228,428	216,080	(3)	216,080
33541 25	Alloys other than 2,000 and 7,000 series	103	224,022	(3)	224,022	210,425	(3)	210,425
33541 28	Alloys in 2,000 and 7,000 series	6	4,406	(3)	4,406	5,655	(3)	5,655
	All other	(NA)	20,393	(3)	20,393	23,286	(3)	23,286
	Powder and paste	(NA)	7,645	(3)	7,645	11,322	(3)	11,322
33991 13	Atomized	5	4,282	(3)	4,282	8,054	(3)	8,054
33991 16	Other flake, powder and paste	6	3,363	-	3,363	3,268	-	3,268
	Forgings and impacts	(NA)	12,748	-	12,748	11,964	-	11,964
34631 21	Forgings	19	8,994	-	8,994	7,626	-	7,626
34631 41	Impacts	8	3,754	-	3,754	4,338	-	4,338

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in June 1986 are as follows: total, 16,561 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 10,000 to 20,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

Quantities of imports received in May 1986 have been revised as follows: total, 12,253 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1]Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2]Data included with drawing stock to avoid disclosing figures for individual companies.
[3]Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
JUNE 1986						
Total	1,017,444	755,084	262,360	64,902	19,003	45,899
Sheet, plate, and foil	647,793	602,215	45,578	37,018	(D)	(D)
Drawing stock, wire, and cable	80,383	52,528	27,855	22,415	(D)	(D)
Rod and bare wire	26,970	17,140	9,830	22,415	(D)	(D)
Cable and insulated wire	53,413	35,388	18,025	-	-	-
Rod, bar, pipe, tube, and shapes	268,875	87,648	181,227	5,469	(D)	(D)
All other[1]	20,393	12,693	7,700	-	-	-
MAY 1986						
Total	1,160,059	917,413	242,646	73,988	23,867	50,121
Sheet, plate, and foil	773,525	729,355	44,170	42,385	(D)	(D)
Drawing stock, wire, and cable	98,197	73,628	24,569	26,376	(D)	(D)
Rod and bare wire	40,696	31,265	9,431	26,376	(D)	(D)
Cable and insulated wire	57,501	42,363	15,138	-	-	-
Rod, bar, pipe, tube, and shapes	265,051	99,056	165,995	5,227	(D)	(D)
All other[1]	23,286	15,374	7,912	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1]Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	June 1986				May 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,047,001	4,203,862	661,339	181,800	5,044,774	4,194,477	660,317	189,980
Ingot	1,957,737	1,617,697	249,790	90,250	1,839,772	1,512,833	236,587	90,352
Scrap	618,706	467,836	59,320	91,550	591,078	436,780	54,670	99,628
Other	2,470,558	2,118,329	352,229	-	2,613,924	2,244,864	369,060	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	June 1986	May 1986
Ingot and mill products (excluding forgings, but including forging stock)	7,260	12,807
Sheet and plate	3,027	5,493
Other (including ingot)	4,233	7,314
Forgings and impacts	1,309	1,131

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	JUNE 1986						
	Mill products[6]	904,927	33,633	3.7	81,742	953,036	8.6
33532 21 33532 25 33531 13	Sheet and plate	539,887	28,967	5.4	67,089	578,009	11.6
33531 15 33533 51	Foil	70,888	1,096	1.5	4,805	74,597	6.4
33552 25 33541 15 33541 18	Rod and bar	8,517	1,326	15.6	5,580	12,771	43.7
33551 31	Bare wire	9,468	341	3.6	606	9,733	6.2
33551 65	Bare cable	18,546	101	0.5	383	18,828	2.0
33541 25 33541 28	Extruded shapes	228,428	1,069	0.5	1,275	228,634	0.6
33542 43 33542 45	Pipe and tube (extruded and drawn)	21,548	308	1.4	896	22,136	4.0
33991 13 33991 16	Powder and paste	7,645	425	5.6	1,108	8,328	13.3
	MAY 1986						
	Mill products[6]	1,041,133	40,499	3.9	95,187	1,095,821	8.7
33532 21 33532 25 33531 13	Sheet and plate	653,979	35,018	5.4	65,127	684,088	9.5
33531 15 33533 51	Foil	77,161	1,472	1.9	5,389	81,078	6.6
33552 25 33541 15 33541 18	Rod and bar	23,406	1,460	6.2	16,082	38,028	42.3
33551 31	Bare wire	10,201	310	3.0	1,055	10,946	9.6
33551 65	Bare cable	24,527	26	0.1	217	24,718	0.9
33541 25 33541 28	Extruded shapes	216,080	1,092	0.5	1,438	216,426	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	24,457	474	1.9	5,099	29,082	17.5
33991 13 33991 16	Powder and paste	11,322	647	5.7	780	11,455	6.8

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4] These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5] Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6] Excludes insulated wire and cable and forgings and impacts.

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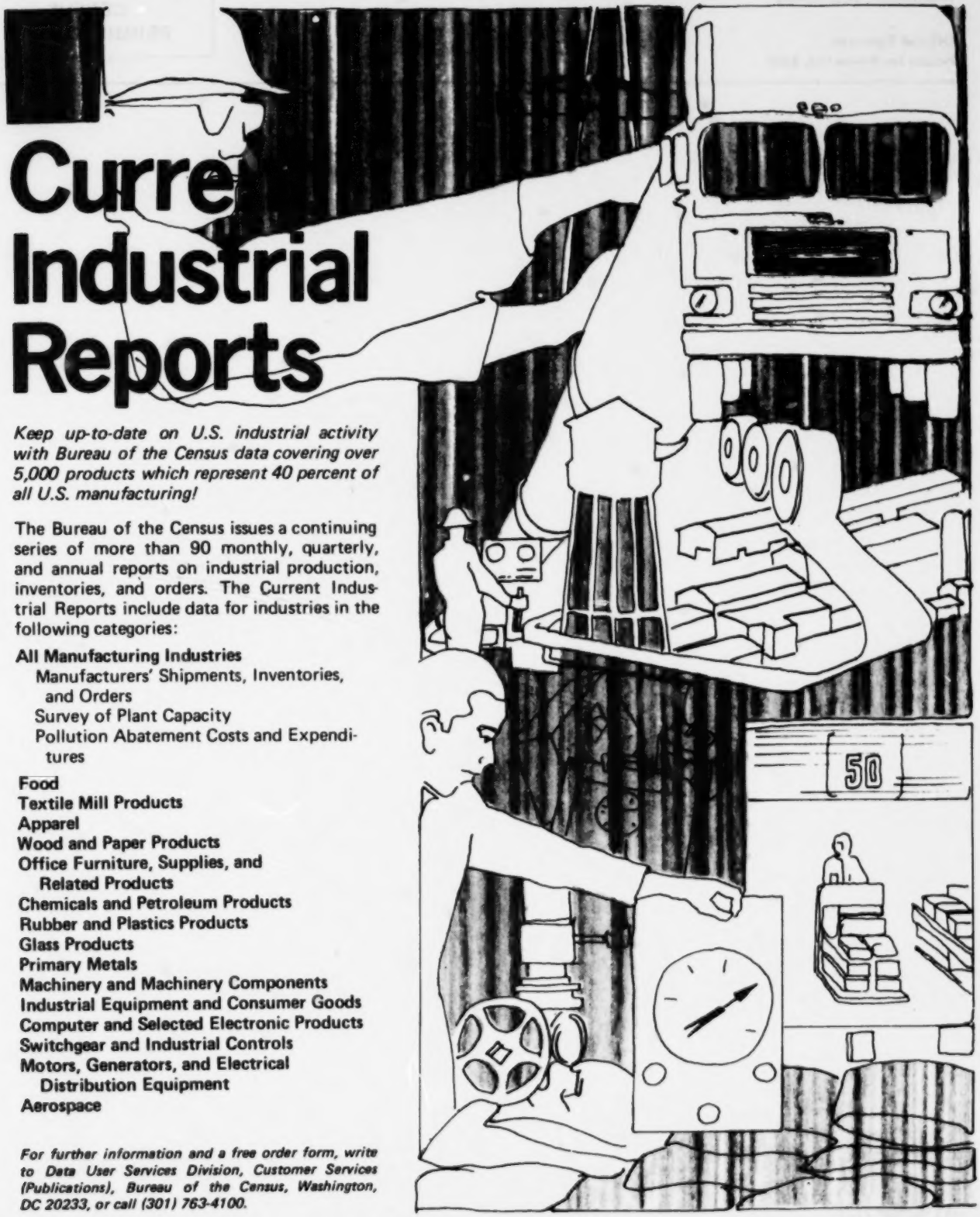

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M33-2(86)-7

CURRENT INDUSTRIAL REPORTS

Aluminum Ingot and Mill Products

JULY 1986

M33-2(86)-7
Issued October 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

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Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
July	1,131,471	938,528	192,943	5,062,515
June	1,184,330	937,794	246,536	5,043,609
May	1,368,721	1,086,071	282,650	5,044,774
April	1,322,727	1,063,924	258,803	5,097,413
March	1,379,215	1,029,582	349,633	5,053,946
February	1,168,307	913,192	255,115	5,158,217
January	1,173,815	945,604	228,211	5,160,740

[1]Of this total, net shipments of extrusion ingot was 29,860 for July 1986 and 13,107 for June 1986. Net shipments of other ingot was 163,083 for July 1986 and 233,429 for June 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
JULY 1986			
Aluminum ingot and mill products[1]	1,683,513	401,732	130,310
Integrated	1,031,572	(D)	(2)
Smelters	133,209	(D)	(2)
All other	518,732	213,601	(2)
Imports (ingot only)	267,140	-	-
Nonintegrated	251,592	213,601	(2)
Mill products[2]	987,908	49,380	(2)
By type of producer:			
Integrated	744,248	11,609	(2)
Nonintegrated	223,660	37,771	(2)
Ingot	695,605	332,352	130,310
By type of producer:			
Integrated	267,324	(D)	(D)
Smelters[3]	133,209	(D)	(D)
All other	295,072	175,830	(D)
Imports[4]	267,140	-	-
Nonintegrated	27,932	175,830	(D)
By type of ingot:			
Extrusion ingot	139,777	109,917	(5)
Integrated	59,411	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	89,517	(D)
Imports[4]	33,713	-	-
Nonintegrated	(D)	89,517	(D)
Other ingot (primary and secondary)	555,828	242,435	130,310
Integrated	207,913	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	86,313	(D)
Imports[4]	233,427	-	-
Nonintegrated	(D)	86,313	(D)
JUNE 1986			
Aluminum ingot and mill products[1]	1,694,800	384,056	126,414
Integrated	973,557	(D)	(2)
Smelters	135,959	(D)	(2)
All other	585,284	218,714	(2)
Imports (ingot only)	317,693	-	-
Nonintegrated	267,591	218,714	(2)
Mill products[2]	1,002,295	64,501	(2)
By type of producer:			
Integrated	755,711	19,096	(2)
Nonintegrated	246,584	45,405	(2)
Ingot	692,505	319,555	126,414
By type of producer:			
Integrated	217,846	(D)	(D)
Smelters[3]	135,959	(D)	(D)
All other	338,700	173,309	(D)
Imports[4]	317,693	-	-
Nonintegrated	21,007	173,309	(D)
By type of ingot:			
Extrusion ingot	123,822	110,715	(5)
Integrated	59,321	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	91,753	(D)
Imports[4]	25,523	-	-
Nonintegrated	(D)	91,753	(D)
Other ingot (primary and secondary)	568,683	208,840	126,414
Integrated	158,525	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	81,556	(D)
Imports[4]	292,170	-	-
Nonintegrated	(D)	81,556	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 37.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	July 1986			June 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	987,908	49,380	938,528	1,002,295	64,501	937,794
	Sheet, plate, and foil	(NA)	646,176	24,585	621,591	648,305	37,340	610,963
	Sheet and plate	(NA)	590,195	24,585	565,610	577,415	37,340	540,075
	Sheet	(NA)	574,240	24,585	549,655	560,008	37,340	522,668
33532 21	Nonheat-treatable	25	557,442	24,585	532,857	544,276	37,340	506,936
33532 25	Heat-treatable	7	16,798	(1)	16,798	15,732	(1)	15,732
	Plate	(NA)	15,955	(1)	15,955	17,407	(1)	17,407
33531 15	Nonheat-treatable	8	5,198	(1)	5,198	4,620	(1)	4,620
33531 13	Heat-treatable	5	10,757	(1)	10,757	12,787	(1)	12,787
33533 51	Foil	15	55,981	(1)	55,981	70,888	(1)	70,888
	Rod, wire, and cable	(NA)	79,538	21,576	57,962	79,932	22,608	57,344
	Rod and bare wire	(NA)	27,958	21,576	6,382	26,568	22,608	3,960
33552 25	Drawing stock (redraw rod)	7	20,395	21,576	-1,181	17,337	22,608	-5,271
33551 31	Bare wire	21	7,563	(2)	7,563	9,231	(2)	9,231
	Cable and insulated wire	(NA)	51,580	-	51,580	53,384	-	53,384
33551 65	ACSR and aluminum cable, bare	9	20,217	-	20,217	18,546	-	18,546
33570 25	Wire and cable, insulated or covered	21	31,363	-	31,363	34,838	-	34,838
	Rod, bar, pipe, tube and shapes	(NA)	244,619	3,219	241,400	253,289	4,553	248,736
	Rod and bar (rolled and extruded)	(NA)	20,263	3,219	17,044	19,416	4,553	14,863
33541 15	Alloys other than 2,000 and 7,000 series	16	10,613	3,219	7,394	11,021	4,553	6,468
33541 18	Alloys in 2,000 and 7,000 series	6	9,650	(3)	9,650	8,395	(3)	8,395
	Pipe and tube (extruded and drawn)	(NA)	22,547	(3)	22,547	22,322	(3)	22,322
33542 43	Alloys other than 2,000 and 7,000 series	31	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	4	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	201,809	(3)	201,809	211,551	(3)	211,551
33541 25	Alloys other than 2,000 and 7,000 series	106	195,436	(3)	195,436	207,065	(3)	207,065
33541 28	Alloys in 2,000 and 7,000 series	6	6,373	(3)	6,373	4,486	(3)	4,486
	All other	(NA)	17,575	(3)	17,575	20,751	(3)	20,751
	Powder and paste	(NA)	7,508	(3)	7,508	7,747	(3)	7,747
33991 13	Atomized	5	4,797	(3)	4,797	4,282	(3)	4,282
33991 16	Other flake, powder and paste	7	2,711	-	2,711	3,465	-	3,465
	Forgings and impacts	(NA)	10,067	-	10,067	13,004	-	13,004
34631 21	Forgings	18	6,348	-	6,348	8,969	-	8,969
34631 41	Impacts	9	3,719	-	3,719	4,035	-	4,035

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in July 1986 are as follows: total, 13,728 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

Quantities of imports received in June 1986 have been revised as follows: total, 16,374 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 10,000 to 20,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
JULY 1986						
Total	987,908	764,248	223,660	49,380	11,609	37,771
Sheet, plate, and foil	646,176	605,752	40,424	24,585	(D)	(D)
Drawing stock, wire, and cable	79,538	57,279	22,259	21,576	(D)	(D)
Rod and bare wire	27,958	20,161	7,797	21,576	(D)	(D)
Cable and insulated wire	51,580	37,118	14,462	-	-	-
Rod, bar, pipe, tube, and shapes	244,619	90,059	154,560	3,219	(D)	(D)
All other[1]	17,575	11,158	6,417	-	-	-
JUNE 1986						
Total	1,002,295	755,711	246,584	64,501	19,096	45,405
Sheet, plate, and foil	648,303	602,725	45,578	37,340	(D)	(D)
Drawing stock, wire, and cable	79,952	52,528	27,424	22,608	(D)	(D)
Rod and bare wire	26,568	17,140	9,428	22,608	(D)	(D)
Cable and insulated wire	53,384	35,388	17,996	-	-	-
Rod, bar, pipe, tube, and shapes	253,289	87,765	165,524	4,553	(D)	(D)
All other[1]	20,751	12,693	8,058	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	July 1986				June 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,062,515	4,221,308	659,342	181,865	5,043,609	4,203,577	658,232	181,800
Ingot	1,987,823	1,648,419	250,963	88,441	1,958,511	1,616,958	250,099	91,454
Scrap	625,459	471,604	60,431	93,424	613,905	468,131	55,428	90,346
Other	2,449,233	2,101,285	347,948	-	2,471,193	2,118,488	352,705	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	July 1986	June 1986
Ingot and mill products (excluding forgings, but including forging stock)	8,760	7,260
Sheet and plate	3,530	3,027
Other (including ingot)	5,230	4,233
Forgings and impacts	822	1,309

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	JULY 1986						
	Mill products[6]	897,098	27,185	3.0	136,957	1,006,870	13.6
33532 21 33532 25 33531 13 33531 15	Sheet and plate	565,610	22,082	3.9	92,411	635,939	14.5
33533 51	Foil	55,981	965	1.7	6,706	61,722	10.9
33552 25 33541 15 33541 18	Rod and bar	15,863	1,105	7.0	29,508	44,266	66.7
33551 31	Bare wire	7,563	299	4.0	4,201	11,465	36.6
33551 65	Bare cable	20,217	21	0.1	498	20,694	2.4
33541 25 33541 28	Extruded shapes	201,809	1,553	0.8	1,256	201,512	0.6
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,347	475	2.1	752	22,824	3.3
33991 13 33991 16	Powder and paste	7,508	685	9.1	1,625	8,448	19.2
	JUNE 1986						
	Mill products[6]	889,952	33,633	3.8	81,742	938,061	8.7
33532 21 33532 25 33531 13 33531 15	Sheet and plate	540,075	28,967	5.4	67,089	578,197	11.6
33533 51	Foil	70,888	1,096	1.5	4,805	74,597	6.4
33552 25 33541 15 33541 18	Rod and bar	9,592	1,326	13.8	5,580	13,846	40.3
33551 31	Bare wire	9,231	341	3.7	606	9,496	6.4
33551 65	Bare cable	18,546	101	0.5	383	18,828	2.1
33541 25 33541 28	Extruded shapes	211,551	1,069	0.5	1,275	211,757	0.6
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,322	308	1.4	896	22,910	4.0
33991 13 33991 16	Powder and paste	7,747	425	5.5	1,108	8,430	13.1

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4] These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

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[6] Excludes insulated wire and cable and forgings and impacts.

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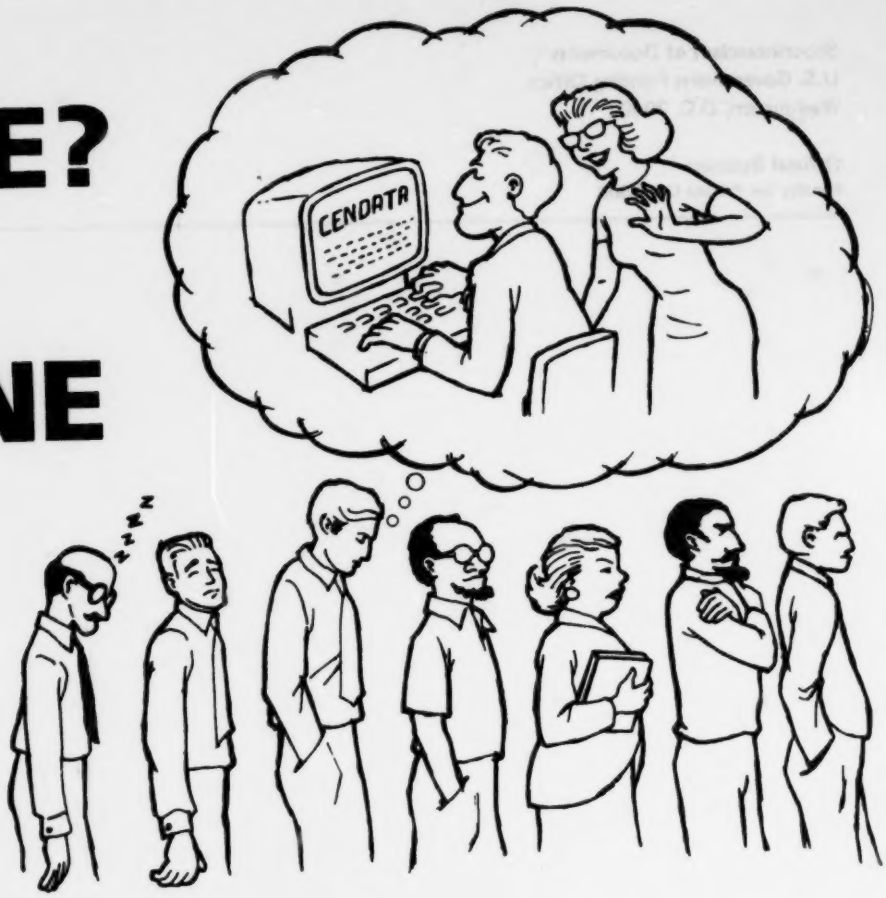

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M33-2(86)-8

CURRENT INDUSTRIAL REPORTS

Aluminum Ingot and Mill Products

AUGUST 1986

M33-2(86)-8
Issued November 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

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Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
August	1,127,571	906,959	220,612	5,062,863
July	1,114,544	907,510	207,034	5,083,533
June	1,202,649	937,794	264,855	5,043,609
May	1,388,288	1,086,071	302,217	5,044,774
April	1,340,491	1,063,924	276,567	5,097,413
March	1,394,656	1,029,582	365,074	5,053,946
February	1,187,261	913,192	274,069	5,158,217
January	1,183,775	945,604	238,171	5,160,740

[1]Of this total, net shipments of extrusion ingot was 37,594 for August 1986 and 33,262 for July 1986. Net shipments of other ingot was 183,018 for August 1986 and 173,772 for July 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
AUGUST 1986			
Aluminum ingot and mill products[1]	1,627,202	336,473	163,158
Integrated	969,733	(D)	(2)
Smelters	132,538	(D)	(2)
All other	524,931	197,024	(2)
Imports (ingot only)	271,770	-	-
Nonintegrated	253,161	197,024	(2)
Mill products[2]	962,466	55,507	(2)
By type of producer:			
Integrated	734,516	19,057	(2)
Nonintegrated	227,950	36,450	(2)
Ingot	664,736	280,966	163,158
By type of producer:			
Integrated	235,217	(D)	(D)
Smelters[3]	132,538	(D)	(D)
All other	296,981	160,574	(D)
Imports[4]	271,770	-	-
Nonintegrated	25,211	160,574	(D)
By type of ingot:			
Extrusion ingot	120,236	82,642	(5)
Integrated	46,885	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	72,482	(D)
Imports[4]	30,515	-	-
Nonintegrated	(D)	72,482	(D)
Other ingot (primary and secondary)	544,500	198,324	163,158
Integrated	188,332	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	88,092	(D)
Imports[4]	241,255	-	-
Nonintegrated	(D)	88,092	(D)
JULY 1986			
Aluminum ingot and mill products[1]	1,656,981	383,035	159,402
Integrated	1,011,935	(D)	(2)
Smelters	127,778	(D)	(2)
All other	517,268	201,080	(2)
Imports (ingot only)	267,140	-	-
Nonintegrated	250,128	201,080	(2)
Mill products[2]	957,695	50,185	(2)
By type of producer:			
Integrated	734,361	11,705	(2)
Nonintegrated	223,334	38,480	(2)
Ingot	699,286	332,850	159,402
By type of producer:			
Integrated	277,574	(D)	(D)
Smelters[3]	127,778	(D)	(D)
All other	293,934	162,600	(D)
Imports[4]	267,140	-	-
Nonintegrated	26,794	162,600	(D)
By type of ingot:			
Extrusion ingot	136,593	103,331	(5)
Integrated	56,227	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	82,967	(D)
Imports[4]	33,713	-	-
Nonintegrated	(D)	82,967	(D)
Other ingot (primary and secondary)	562,693	229,519	159,402
Integrated	221,347	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	79,633	(D)
Imports[4]	233,427	-	-
Nonintegrated	(D)	79,633	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] The number of smelter operators shipping ingot is 37.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	August 1986			July 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	962,466	55,507	906,959	957,695	50,185	907,510
	Sheet, plate, and foil	(NA)	618,206	30,215	587,991	612,896	24,585	588,311
	Sheet and plate	(NA)	556,735	30,215	526,520	554,352	24,585	529,767
	Sheet	(NA)	539,761	30,215	509,546	538,413	24,585	513,828
33532 21	Nonheat-treatable	25	520;147	30,215	489,932	521,370	24,585	496,785
33532 25	Heat-treatable	7	19,614	(1)	19,614	17,043	(1)	17,043
	Plate	(NA)	16,974	(1)	16,974	15,939	(1)	15,939
33531 15	Nonheat-treatable	8	4,608	(1)	4,608	5,182	(1)	5,182
33531 13	Heat-treatable	5	12,366	(1)	12,366	10,757	(1)	10,757
33533 51	Foil	15	61,471	(1)	61,471	58,544	(1)	58,544
	Rod, wire, and cable	(NA)	91,019	22,606	68,413	79,789	22,082	57,707
	Rod and bare wire	(NA)	31,993	22,606	9,387	28,314	22,082	6,232
33552 25	Drawing stock (redraw rod)	7	23,402	22,606	796	20,395	22,082	-1,687
33551 31	Bare wire	21	8,591	(2)	8,591	7,919	(2)	7,919
	Cable and insulated wire	(NA)	59,026	-	59,026	51,475	-	51,475
33551 65	ACSR and aluminum cable, bare	9	23,413	-	23,413	20,145	-	20,145
33570 25	Wire and cable, insulated or covered	21	35,613	-	35,613	31,330	-	31,330
	Rod, bar, pipe, tube and shapes	(NA)	235,556	2,686	232,870	247,479	3,518	243,961
	Rod and bar (rolled and extruded)	(NA)	21,733	2,686	19,047	20,462	3,518	16,944
33541 15	Alloys other than 2,000 and 7,000 series	16	11,379	2,686	8,693	10,789	3,518	7,271
33541 18	Alloys in 2,000 and 7,000 series	6	10,354	(3)	10,354	9,673	(3)	9,673
	Pipe and tube (extruded and drawn)	(NA)	20,788	(3)	20,788	22,845	(3)	22,845
33542 43	Alloys other than 2,000 and 7,000 series	31	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	4	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	193,035	(3)	193,035	204,172	(3)	204,172
33541 25	Alloys other than 2,000 and 7,000 series	106	185,751	(3)	185,751	197,805	(3)	197,805
33541 28	Alloys in 2,000 and 7,000 series	6	7,284	(3)	7,284	6,367	(3)	6,367
	All other	(NA)	17,685	(3)	17,685	17,531	(3)	17,531
	Powder and paste	(NA)	7,076	(3)	7,076	7,291	(3)	7,291
33991 13	Atomized	5	4,184	(3)	4,184	4,797	(3)	4,797
33991 16	Other flake, powder and paste	7	2,892	-	2,892	2,494	-	2,494
	Forgings and impacts	(NA)	10,609	-	10,609	10,240	-	10,240
34631 21	Forgings	18	7,328	-	7,328	6,670	-	6,670
34631 41	Impacts	9	3,281	-	3,281	3,570	-	3,570

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in August 1986 are as follows: total, 9,738 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in July 1986 have been revised as follows: total, 13,726 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
AUGUST 1986						
Total	962,466	734,516	227,950	55,507	19,057	36,450
Sheet, plate, and foil	618,206	573,964	44,242	30,215	(D)	(D)
Drawing stock, wire, and cable	91,019	64,755	26,264	22,606	(D)	(D)
Rod and bare wire	31,993	22,756	9,237	22,606	(D)	(D)
Cable and insulated wire	59,026	41,999	17,027	-	-	-
Rod, bar, pipe, tube, and shapes	235,556	84,877	150,679	2,686	(D)	(D)
All other[1]	17,685	10,920	6,765	-	-	-
JULY 1986						
Total	957,695	734,361	223,334	50,185	11,705	38,480
Sheet, plate, and foil	612,896	572,698	40,198	24,585	(D)	(D)
Drawing stock, wire, and cable	79,789	57,279	22,510	22,082	(D)	(D)
Rod and bare wire	28,314	20,161	8,153	22,082	(D)	(D)
Cable and insulated wire	51,475	37,118	14,357	-	-	-
Rod, bar, pipe, tube, and shapes	247,479	93,226	154,253	3,518	(D)	(D)
All other[1]	17,531	11,158	6,373	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1]Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	August 1986				July 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	5,062,863	4,230,518	650,906	181,439	5,083,533	4,248,483	654,555	180,495
Ingot	2,068,298	1,730,325	248,053	89,920	1,997,729	1,666,006	244,224	87,499
Scrap	619,266	466,018	61,729	91,519	624,894	474,982	56,916	92,996
Other	2,375,299	2,034,175	341,124	-	2,460,910	2,107,495	353,415	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	August 1986	July 1986
Ingot and mill products (excluding forgings, but including forging stock)	8,196	7,862
Sheet and plate	3,798	3,241
Other (including ingot)	4,398	4,621
Forgings and impacts	870	822

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3] [4]	Apparent consumption[5]	Percent imports to apparent consumption
	AUGUST 1986						
	Mill products[6]	860,737	30,099	3.5	89,198	919,836	9.7
33532 21 33532 25 33531 13 33531 15	Sheet and plate	526,520	23,588	4.5	74,238	577,170	12.9
33533 51	Foil	61,471	809	1.3	4,660	65,322	7.1
33552 25 33541 15 33541 18	Rod and bar	19,843	3,035	15.3	4,680	21,488	21.8
33551 31	Bare wire	8,591	556	6.5	812	8,847	9.2
33551 65	Bare cable	23,413	24	0.1	294	23,683	1.2
33541 25 33541 28	Extruded shapes	193,035	940	0.5	2,755	194,850	1.4
33542 43 33542 45	Pipe and tube (extruded and drawn)	20,788	734	3.5	493	20,547	2.4
33991 13 33991 16	Powder and paste	7,076	413	5.8	1,266	7,929	16.0
	JULY 1986						
	Mill products[6]	865,940	27,185	3.1	136,957	975,712	14.0
33532 21 33532 25 33531 13 33531 15	Sheet and plate	529,767	22,082	4.2	92,411	600,096	15.4
33533 51	Foil	58,544	965	1.6	6,706	64,285	10.4
33552 25 33541 15 33541 18	Rod and bar	15,257	1,105	7.2	29,508	43,660	67.6
33551 31	Bare wire	7,919	299	3.8	4,201	11,821	35.5
33551 65	Bare cable	20,145	21	0.1	498	20,622	2.4
33541 25 33541 28	Extruded shapes	204,172	1,553	0.8	1,256	203,875	0.6
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,845	475	2.1	752	23,122	3.3
33991 13 33991 16	Powder and paste	7,291	685	9.4	1,625	8,231	19.7

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

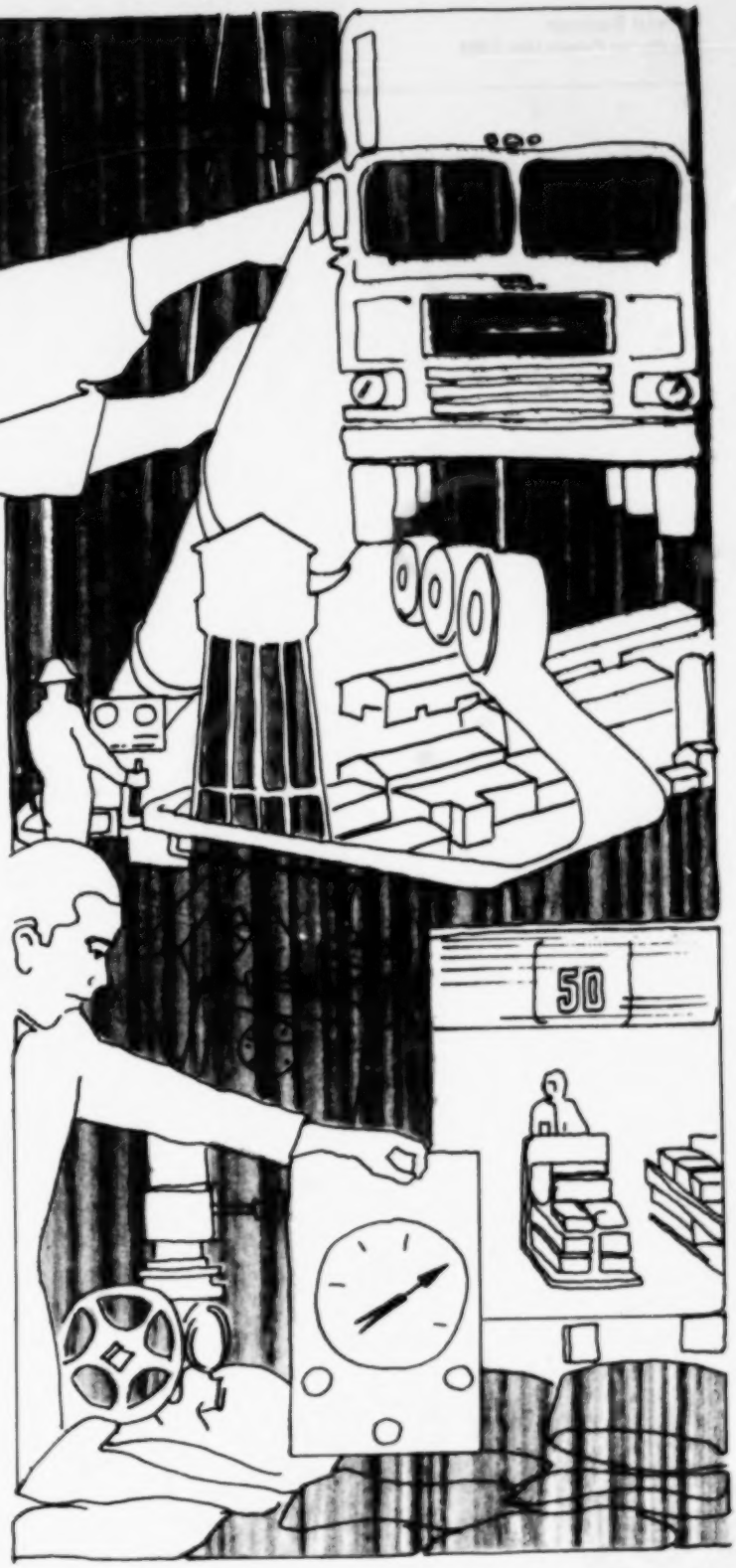
[3] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4] These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5] Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6] Excludes insulated wire and cable and forgings and impacts.

Current Industrial Reports



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Aluminum Ingot and Mill Products

SEPTEMBER 1986

M33-2(86)-9
Issued December 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for October 1986 will be released on or about December 19, 1986. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
September	1,114,202	927,453	186,749	4,984,110
August	1,132,781	914,821	217,960	5,058,599
July	1,114,544	907,510	207,034	5,083,533
June	1,202,649	937,794	264,855	5,043,609
May	1,388,288	1,086,071	302,217	5,044,774
April	1,340,491	1,063,924	276,567	5,097,413
March	1,394,656	1,029,582	365,074	5,053,946
February	1,187,261	913,192	274,069	5,158,217
January	1,183,775	945,604	238,171	5,160,740

[1]Of this total, net shipments of extrusion ingot was 30,622 for September 1986 and 39,841 for August 1986. Net shipments of other ingot was 156,127 for September 1986 and 178,119 for August 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coen, (301) 763-7476.
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C3.158:

Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
SEPTEMBER 1986			
Aluminum ingot and mill products[1]	1,631,809	395,318	122,289
Integrated	1,019,244	(D)	(2)
Smelters	142,351	(D)	(2)
All other	470,214	221,511	(2)
Imports (ingot only)	207,287	-	-
Nonintegrated	262,927	221,511	(2)
Mill products[2]	987,421	59,968	(2)
By type of producer:			
Integrated	751,242	18,410	(2)
Nonintegrated	236,179	41,558	(2)
Ingot	644,388	335,350	122,289
By type of producer:			
Integrated	268,002	(D)	(D)
Smelters[3]	142,351	(D)	(D)
All other	234,035	179,953	(D)
Imports[4]	207,287	-	-
Nonintegrated	26,748	179,953	(D)
By type of ingot:			
Extrusion ingot	129,885	99,263	(5)
Integrated	55,297	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	82,785	(D)
Imports[4]	25,998	-	-
Nonintegrated	(D)	82,785	(D)
Other ingot (primary and secondary)	514,503	236,087	122,289
Integrated	212,705	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	97,168	(D)
Imports[4]	181,289	-	-
Nonintegrated	(D)	97,168	(D)
AUGUST 1986			
Aluminum ingot and mill products[1]	1,639,253	343,314	163,158
Integrated	977,409	(D)	(2)
Smelters	134,347	(D)	(2)
All other	527,497	199,736	(2)
Imports (ingot only)	271,770	-	-
Nonintegrated	255,727	199,736	(2)
Mill products[2]	971,809	56,988	(2)
By type of producer:			
Integrated	742,192	19,057	(2)
Nonintegrated	229,617	37,931	(2)
Ingot	667,444	286,326	163,158
By type of producer:			
Integrated	235,217	(D)	(D)
Smelters[3]	134,347	(D)	(D)
All other	297,880	161,805	(D)
Imports[4]	271,770	-	-
Nonintegrated	26,110	161,805	(D)
By type of ingot:			
Extrusion ingot	121,141	81,300	(5)
Integrated	46,885	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	71,213	(D)
Imports[4]	30,515	-	-
Nonintegrated	(D)	71,213	(D)
Other ingot (primary and secondary)	546,303	205,026	163,158
Integrated	188,332	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	90,592	(D)
Imports[4]	241,255	-	-
Nonintegrated	(D)	90,592	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.

[2] See table 3 for detailed figures.

[3] The number of smelter operators shipping ingot is 37.

[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.

[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	September 1986			August 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	987,421	59,968	927,453	971,809	56,988	914,821
	Sheet, plate, and foil	(NA)	627,201	29,814	597,387	618,115	30,377	587,738
	Sheet and plate	(NA)	552,807	29,814	522,993	556,644	30,377	526,267
	Sheet	(NA)	532,376	29,814	502,562	539,793	30,377	509,416
33532 21	Nonheat-treatable	25	509,559	29,814	479,745	520,155	30,377	489,778
33532 25	Heat-treatable	7	22,817	(1)	22,817	19,638	(1)	19,638
	Plate	(NA)	20,431	(1)	20,431	16,851	(1)	16,851
33531 15	Nonheat-treatable	8	5,581	(1)	5,581	4,485	(1)	4,485
33531 13	Heat-treatable	5	14,850	(1)	14,850	12,366	(1)	12,366
33533 51	Foil	15	74,394	(1)	74,394	61,471	(1)	61,471
	Rod, wire, and cable	(NA)	86,691	26,952	59,739	92,384	23,010	69,374
	Rod and bare wire	(NA)	35,339	26,952	8,387	32,590	23,010	9,580
33552 25	Drawing stock (redraw rod)	7	24,654	26,952	-2,298	23,950	23,010	940
33551 31	Bare wire	21	10,685	(2)	10,685	8,640	(2)	8,640
	Cable and insulated wire	(NA)	51,352	-	51,352	59,794	-	59,794
33551 65	ACSR and aluminum cable, bare	9	19,140	-	19,140	23,413	-	23,413
33570 25	Wire and cable, insulated or covered	21	32,212	-	32,212	36,381	-	36,381
	Rod, bar, pipe, tube and shapes	(NA)	253,483	3,202	250,281	243,707	3,601	240,106
	Rod and bar (rolled and extruded)	(NA)	21,218	3,202	18,016	21,266	3,601	17,665
33541 15	Alloys other than 2,000 and 7,000 series	16	12,066	3,202	8,864	11,595	3,601	7,994
33541 18	Alloys in 2,000 and 7,000 series	6	9,152	(3)	9,152	9,671	(3)	9,671
	Pipe and tube (extruded and drawn)	(NA)	22,527	(3)	22,527	20,614	(3)	20,614
33542 43	Alloys other than 2,000 and 7,000 series	31	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	4	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	209,738	(3)	209,738	201,827	(3)	201,827
33541 25	Alloys other than 2,000 and 7,000 series	106	203,989	(3)	203,989	194,989	(3)	194,989
33541 28	Alloys in 2,000 and 7,000 series	6	5,749	(3)	5,749	6,838	(3)	6,838
	All other	(NA)	20,046	(3)	20,046	17,603	(3)	17,603
	Powder and paste	(NA)	8,100	(3)	8,100	6,994	(3)	6,994
33991 13	Atomized	5	5,260	(3)	5,260	4,374	(3)	4,374
33991 16	Other flake, powder and paste	7	2,840	-	2,840	2,620	-	2,620
	Forgings and impacts	(NA)	11,946	-	11,946	10,609	-	10,609
34631 21	Forgings	18	8,067	-	8,067	7,328	-	7,328
34631 41	Impacts	9	3,879	-	3,879	3,281	-	3,281

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in September 1986 are as follows: total, 4,505 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 1,000 to 2,000 thousand pounds; other products, 200 to 500 thousand pounds.

Quantities of imports received in August 1986 have been revised as follows: total, 9,738 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
SEPTEMBER 1986						
Total	987,421	751,242	236,179	59,968	18,410	41,558
Sheet, plate, and foil	627,201	585,126	42,075	29,814	(D)	(D)
Drawing stock, wire, and cable	86,691	62,172	24,519	26,952	(D)	(D)
Rod and bare wire	35,339	24,782	10,557	26,952	(D)	(D)
Cable and insulated wire	51,352	37,390	13,962	-	-	-
Rod, bar, pipe, tube, and shapes	253,483	91,583	161,900	3,202	(D)	(D)
All other[1]	20,046	12,361	7,685	-	-	-
AUGUST 1986						
Total	971,809	742,192	229,617	56,988	19,057	37,931
Sheet, plate, and foil	618,115	573,964	44,151	30,377	(D)	(D)
Drawing stock, wire, and cable	92,384	64,756	27,628	23,010	(D)	(D)
Rod and bare wire	32,590	22,757	9,833	23,010	(D)	(D)
Cable and insulated wire	59,794	41,999	17,795	-	-	-
Rod, bar, pipe, tube, and shapes	243,707	92,550	151,157	3,601	(D)	(D)
All other[1]	17,603	10,922	6,681	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	September 1986				August 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	4,984,110	4,167,368	636,457	180,285	5,058,599	4,231,376	645,274	181,949
Ingot	2,000,066	1,682,585	238,025	79,456	2,057,969	1,731,183	244,128	82,658
Scrap	644,846	481,302	62,715	100,829	625,844	466,018	60,535	99,291
Other	2,339,198	2,003,481	335,717	-	2,374,786	2,034,175	340,611	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	September 1986	August 1986
Ingot and mill products (excluding forgings, but including forging stock)	8,361	8,462
Sheet and plate	3,925	3,798
Other (including ingot)	4,436	4,664
Forgings and impacts	801	870

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3,4]	Apparent consumption[5]	Percent imports to apparent consumption
	SEPTEMBER 1986						
	Mill products[6]	883,295	36,237	4.1	77,409	924,467	8.4
33532 21 33532 25 33531 13 33531 15	Sheet and plate	522,993	29,306	5.6	60,105	553,792	10.8
33533 51	Foil	74,394	989	1.3	5,018	78,423	6.4
33552 25 33541 15 33541 18	Rod and bar	15,718	2,446	15.6	7,356	20,628	35.7
33551 31	Bare wire	10,685	1,103	10.3	657	10,239	6.4
33551 65	Bare cable	19,140	502	2.6	439	19,077	2.3
33541 25 33541 28	Extruded shapes	209,738	737	0.4	1,407	210,408	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,527	742	3.3	1,676	23,461	7.1
33991 13 33991 16	Powder and paste	8,100	412	5.1	751	8,439	8.9
	AUGUST 1986						
	Mill products[6]	867,831	30,099	3.5	89,198	926,930	9.6
33532 21 33532 25 33531 13 33531 15	Sheet and plate	526,267	23,588	4.5	74,238	576,917	12.9
33533 51	Foil	61,471	809	1.3	4,660	65,322	7.1
33552 25 33541 15 33541 18	Rod and bar	18,605	3,035	16.3	4,680	20,250	23.1
33551 31	Bare wire	8,640	556	6.4	812	8,896	9.1
33551 65	Bare cable	23,413	24	0.1	294	23,683	1.2
33541 25 33541 28	Extruded shapes	201,827	940	0.5	2,755	203,642	1.4
33542 43 33542 45	Pipe and tube (extruded and drawn)	20,614	734	3.6	493	20,373	2.4
33991 13 33991 16	Powder and paste	6,994	413	5.9	1,266	7,847	16.1

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

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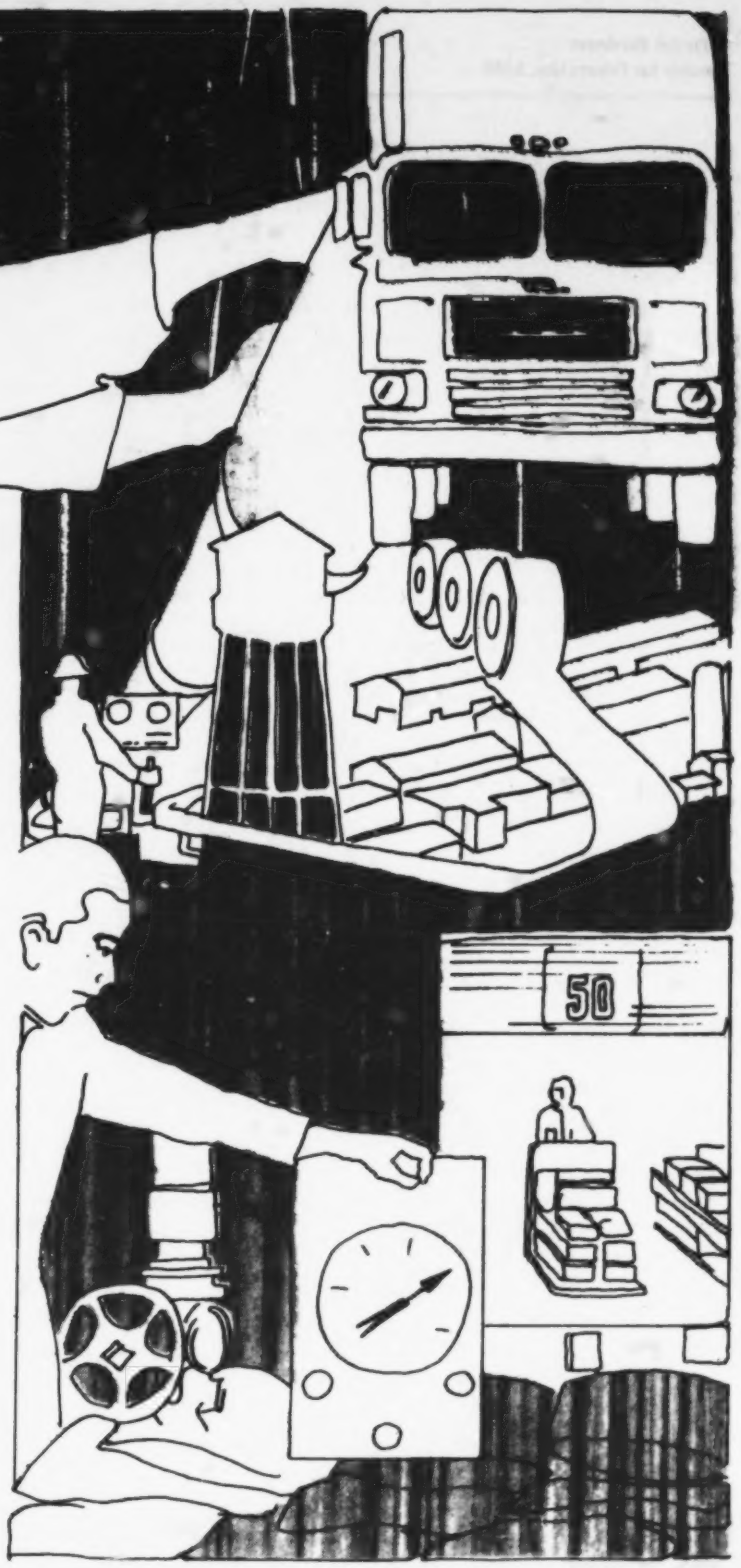

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M 33-2(86)-10

Aluminum Ingot and Mill Products

OCTOBER 1986

M33-2(86)10
Issued January 1987

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April 1986.

This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for November 1986 will be release on or about January 17, 1987. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

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Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
October	1,215,609	970,246	245,363	4,929,441
September	1,117,216	931,887	185,329	4,976,319
August	1,132,781	914,821	217,960	5,058,599
July	1,114,544	907,510	207,034	5,083,533
June	1,202,649	937,794	264,855	5,043,609
May	1,388,288	1,086,071	302,217	5,044,774
April	1,340,491	1,063,924	276,567	5,097,413
March	1,394,656	1,029,582	365,074	5,053,946
February	1,187,261	913,192	274,069	5,158,217
January	1,183,775	945,604	238,171	5,160,740

[1] Of this total, net shipments of extrusion ingot was 36,305 for October 1986 and 28,365 for September 1986. Net shipments of other ingot was 209,058 for October 1986 and 156,964 for September 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
OCTOBER 1986			
Aluminum ingot and mill products[1]	1,731,198	394,652	120,937
Integrated	1,078,293	(D)	(2)
Smelters	150,035	(D)	(2)
All other	502,870	220,456	(2)
Imports (ingot only)	239,099	-	-
Nonintegrated	263,771	220,456	(2)
Mill products[2]	1,032,761	62,515	(2)
By type of producer:			
Integrated	791,395	16,744	(2)
Nonintegrated	241,366	45,771	(2)
Ingot	698,437	332,137	120,937
By type of producer:			
Integrated	286,898	(D)	(D)
Smelters[3]	150,035	(D)	(D)
All other	261,504	174,685	(D)
Imports[4]	239,099	-	-
Nonintegrated	22,405	174,685	(D)
By type of ingot:			
Extrusion ingot	129,227	92,922	(5)
Integrated	48,616	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	77,915	(D)
Imports[4]	36,875	-	-
Nonintegrated	(D)	77,915	(D)
Other ingot (primary and secondary)	569,210	239,215	120,937
Integrated	238,282	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	96,770	(D)
Imports[4]	202,224	-	-
Nonintegrated	(D)	96,770	(D)
SEPTEMBER 1986			
Aluminum ingot and mill products[1]	1,630,562	389,887	123,459
Integrated	1,019,487	(D)	(2)
Smelters	140,800	(D)	(2)
All other	470,275	216,225	(2)
Imports (ingot only)	207,287	-	-
Nonintegrated	262,988	216,225	(2)
Mill products[2]	991,504	59,617	(2)
By type of producer:			
Integrated	754,323	18,410	(2)
Nonintegrated	237,181	41,207	(2)
Ingot	639,058	330,270	123,459
By type of producer:			
Integrated	265,164	(D)	(D)
Smelters[3]	140,800	(D)	(D)
All other	233,094	175,018	(D)
Imports[4]	207,287	-	-
Nonintegrated	25,807	175,018	(D)
By type of ingot:			
Extrusion ingot	128,944	100,579	(5)
Integrated	55,297	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	84,101	(D)
Imports[4]	25,998	-	-
Nonintegrated	(D)	84,101	(D)
Other ingot (primary and secondary)	510,114	229,691	123,459
Integrated	209,867	(D)	(D)
Smelters[3]	(D)	(D)	(D)
All other	(D)	90,917	(D)
Imports[4]	181,289	-	-
Nonintegrated	(D)	90,917	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1]

[2] See note, table 3.

[3] See table 3 for detailed figures.

[4] The number of smelter operators shipping ingot is 37.

Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.

[5] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	October 1986			September 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	1,032,761	62,515	970,246	991,504	59,617	931,887
	Sheet, plate, and foil	(NA)	657,862	30,455	627,407	629,945	29,376	600,569
	Sheet and plate	(NA)	578,974	30,455	548,519	555,551	29,376	526,175
	Sheet	(NA)	557,432	30,455	526,977	535,120	29,376	505,744
33532 21	Nonheat-treatable	25	533,006	30,455	502,551	512,303	29,376	482,927
33532 25	Heat-treatable	7	24,426	(1)	24,426	22,817	(1)	22,817
	Plate	(NA)	21,542	(1)	21,542	20,431	(1)	20,431
33531 15	Nonheat-treatable	8	6,736	(1)	6,736	5,581	(1)	5,581
33531 13	Heat-treatable	5	14,806	(1)	14,806	14,850	(1)	14,850
33533 51	Foil	15	78,888	(1)	78,888	74,394	(1)	74,394
	Rod, wire, and cable	(NA)	88,987	26,806	62,181	86,901	26,941	59,960
	Rod and bare wire	(NA)	31,907	26,806	5,101	35,544	26,941	8,603
33552 25	Drawing stock (redraw rod)	7	22,377	26,806	-4,429	24,877	26,941	-2,064
33551 31	Bare wire	21	9,530	(2)	9,530	10,667	(2)	10,667
	Cable and insulated wire	(NA)	57,080	(2)	57,080	51,357	(2)	51,357
33551 65	ACSR and aluminum cable, bare	9	18,240	(2)	18,240	19,145	(2)	19,145
33570 25	Wire and cable, insulated or covered	21	38,840	-	38,840	32,212	-	32,212
	Rod, bar, pipe, tube and shapes	(NA)	263,925	5,254	258,671	254,528	3,300	251,228
	Rod and bar (rolled and extruded)	(NA)	22,923	5,254	17,669	21,218	3,300	17,918
33541 15	Alloys other than 2,000 and 7,000 series	16	13,000	5,254	7,746	12,066	3,300	8,766
33541 18	Alloys in 2,000 and 7,000 series	6	9,923	(3)	9,923	9,152	(3)	9,152
	Pipe and tube (extruded and drawn)	(NA)	24,621	(3)	24,621	22,486	(3)	22,486
33542 43	Alloys other than 2,000 and 7,000 series	31	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	4	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	216,381	(3)	216,381	210,824	(3)	210,824
33541 25	Alloys other than 2,000 and 7,000 series	106	209,349	(3)	209,349	205,074	(3)	205,074
33541 28	Alloys in 2,000 and 7,000 series	6	7,032	(3)	7,032	5,750	(3)	5,750
	All other	(NA)	21,987	(3)	21,987	20,130	(3)	20,130
	Powder and paste	(NA)	8,589	(3)	8,589	8,070	(3)	8,070
33991 13	Atomized	5	6,011	(3)	6,011	5,230	(3)	5,230
33991 16	Other flake, powder and paste	7	2,578	-	2,578	2,840	-	2,840
	Forgings and impacts	(NA)	13,398	-	13,398	12,060	-	12,060
34631 21	Forgings	18	9,150	-	9,150	8,144	-	8,144
34631 41	Impacts	9	4,248	-	4,248	3,916	-	3,916

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in October 1986 are as follows: total, 22,105 thousand pounds; sheet, plate, and foil, 5,000 to 10,000 thousand pounds; redraw rod and wire, 10,000 to 20,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

Quantities of imports received in September 1986 have been revised as follows: total, 4,505 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 1,000 to 2,000 thousand pounds; other products, 200 to 500 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1]Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2]Data included with drawing stock to avoid disclosing figures for individual companies.
[3]Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
OCTOBER 1986						
Total	1,032,761	791,395	241,366	62,515	16,744	45,771
Sheet, plate, and foil	657,862	614,064	43,798	30,455	(D)	(D)
Drawing stock, wire, and cable	88,987	60,175	28,812	26,806	(D)	(D)
Rod and bare wire	31,907	22,192	9,715	26,806	(D)	(D)
Cable and insulated wire	57,080	37,983	19,097	-	-	-
Rod, bar, pipe, tube, and shapes	263,925	103,389	160,536	5,254	(D)	(D)
All other[1]	21,987	13,767	8,220	-	-	-
SEPTEMBER 1986						
Total	991,504	754,323	237,181	59,617	18,410	41,207
Sheet, plate, and foil	629,945	587,678	42,267	29,376	(D)	(D)
Drawing stock, wire, and cable	86,901	62,624	24,277	26,941	(D)	(D)
Rod and bare wire	35,544	25,234	10,310	26,941	(D)	(D)
Cable and insulated wire	51,357	37,390	13,967	-	-	-
Rod, bar, pipe, tube, and shapes	254,528	91,583	162,945	3,300	(D)	(D)
All other[1]	20,130	12,438	7,692	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	October 1986				September 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	4,929,441	4,114,432	628,389	186,620	4,976,319	4,167,368	630,160	178,791
Ingot	1,889,757	1,572,620	237,758	79,379	1,995,273	1,678,613	237,642	79,018
Scrap	621,770	452,448	62,081	107,241	647,298	486,624	60,901	99,773
Other	2,417,914	2,089,364	328,550	-	2,333,748	2,002,131	331,617	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	October 1986	September 1986
Ingot and mill products (excluding forgings, but including forging stock)	11,025	9,953
Sheet and plate	5,451	5,517
Other (including ingot)	5,574	4,436
Forgings and impacts	1,034	827

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3] [4]	Apparent consumption[5]	Percent imports to apparent consumption
	OCTOBER 1986						
	Mill products[6]	918,008	39,793	4.3	93,203	971,418	9.6
33532 21							
33532 25							
33531 13	Sheet and plate	548,519	34,001	6.2	63,700	578,218	11.0
33531 15							
33533 51	Foil	78,888	1,077	1.4	4,766	82,577	5.8
33552 25							
33541 15	Rod and bar	13,240	1,853	14.0	19,899	31,286	63.6
33541 18							
33551 31	Bare wire	9,530	549	5.8	964	9,945	9.7
33551 65	Bare cable	18,240	52	0.3	564	18,752	3.0
33541 25							
33541 28	Extruded shapes	216,381	1,131	0.5	1,236	216,486	0.6
33542 43							
33542 45	Pipe and tube (extruded and drawn)	24,621	610	2.5	823	24,834	3.3
33991 13							
33991 16	Powder and paste	8,589	320	6.1	1,251	9,320	13.4
	SEPTEMBER 1986						
	Mill products[6]	887,615	36,237	4.1	77,409	928,787	8.3
33532 21							
33532 25							
33531 13	Sheet and plate	526,175	29,306	5.6	60,105	556,974	10.8
33531 15							
33533 51	Foil	74,394	989	1.3	5,018	78,423	6.4
33552 25							
33541 15	Rod and bar	15,854	2,446	15.4	7,356	20,764	35.4
33541 18							
33551 31	Bare wire	10,667	1,103	10.3	657	10,221	6.4
33551 65	Bare cable	19,145	502	2.6	439	19,082	2.3
33541 25							
33541 28	Extruded shapes	210,824	737	0.3	1,407	211,494	0.7
33542 43							
33542 45	Pipe and tube (extruded and drawn)	22,486	742	3.3	1,676	23,420	7.2
33991 13							
33991 16	Powder and paste	8,070	412	5.1	751	8,409	8.9

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] Source: Bureau of the Census report IM 145-K, U.S. Imports for Consumption and General Imports.

[4] These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5] Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6] Excludes insulated wire and cable and forgings and impacts.

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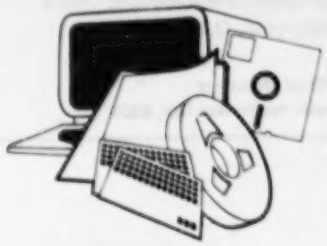

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Aluminum Ingot and Mill Products

NOVEMBER 1986

M33-2(86)-11
Issued January 1987

U.S. Department of Commerce
BUREAU OF THE CENSUS

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of aluminum ingot and mill products. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information may be found in the January 1986 report, M33-2(86)-1 issued April1986.

This report is available electronically in CENDATA, the Bureau's online information service, through a commercial vendor. The electronic version of this report will be available approximately one week earlier than the printed report. The CENDATA report for December 1986 will be released on or about February 17, 1987. For further information, contact Customer Services, DUSD, Bureau of the Census, Washington, D.C. 20233, or call (301) 763-4100.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
November	1,032,497	839,970	192,527	4,904,432
October	1,219,358	972,184	247,174	4,926,735
September	1,117,216	931,887	185,329	4,976,319
August	1,132,781	914,821	217,960	5,058,599
July	1,114,544	907,510	207,034	5,083,533
June	1,202,649	937,794	264,855	5,043,609
May	1,388,288	1,086,071	302,217	5,044,774
April	1,340,491	1,063,924	276,567	5,097,413
March	1,394,656	1,029,582	365,074	5,053,946
February	1,187,261	913,192	274,069	5,158,217
January	1,183,775	945,604	238,171	5,160,740

[1]Of this total, net shipments of extrusion ingot was 19,007 for November 1986 and 36,772 for October 1986. Net shipments of other ingot was 173,520 for November 1986 and 210,402 for October 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
NOVEMBER 1986			
Aluminum ingot and mill products[1]	1,464,614	312,012	120,105
Integrated	906,153	(D)	(2)
Smelters	131,632	(D)	(2)
All other	426,829	183,832	(2)
Imports (ingot only)	200,057	-	-
Nonintegrated	226,772	183,832	(2)
Mill products[3]	886,862	46,892	(2)
By type of producer:			
Integrated	679,748	6,922	(2)
Nonintegrated	207,114	39,970	(2)
Ingot[4]	577,752	265,120	120,105
By type of producer:			
Integrated	226,405	(D)	(D)
Smelters[5]	131,632	(D)	(D)
All other	219,715	143,862	(D)
Imports[6]	200,057	-	-
Nonintegrated	19,658	143,862	(D)
By type of ingot:			
Extrusion ingot	100,832	81,825	(7)
Integrated	33,134	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	65,161	(D)
Imports[6]	28,753	-	-
Nonintegrated	(D)	65,161	(D)
Other ingot (primary and secondary)	476,920	183,295	120,105
Integrated	193,271	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	78,701	(D)
Imports[6]	171,304	-	-
Nonintegrated	(D)	78,701	(D)
OCTOBER 1986			
Aluminum ingot and mill products[1]	1,735,469	394,921	121,190
Integrated	1,078,731	(D)	(2)
Smelters	150,035	(D)	(2)
All other	506,703	222,119	(2)
Imports (ingot only)	239,099	-	-
Nonintegrated	267,604	222,119	(2)
Mill products[3]	1,034,958	62,774	(2)
By type of producer:			
Integrated	791,497	16,368	(2)
Nonintegrated	243,461	46,406	(2)
Ingot[4]	700,511	332,147	121,190
By type of producer:			
Integrated	287,234	(D)	(D)
Smelters[5]	150,035	(D)	(D)
All other	263,242	175,713	(D)
Imports[6]	239,099	-	-
Nonintegrated	24,143	175,713	(D)
By type of ingot:			
Extrusion ingot	131,191	94,419	(7)
Integrated	48,842	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	79,340	(D)
Imports[6]	36,875	-	-
Nonintegrated	(D)	79,340	(D)
Other ingot (primary and secondary)	569,320	237,728	121,190
Integrated	238,392	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	96,373	(D)
Imports[6]	202,224	-	-
Nonintegrated	(D)	96,373	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.
[2] See table 3 for detailed figures.
[3] Share of the domestic producer's gross shipments accounted for by the four largest companies shipping ingot (including billet and secondary) as a percent of the total for November was 38 and for October was 39.
[4] Share of the domestic producer's gross shipments accounted for by the four largest companies shipping mill products as a percent of the total for November was 54 and for October was 56.
[5] The number of smelter operators shipping ingot is 37.
[6] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.
[7] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	November 1986			October 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	886,862	46,892	839,970	1,034,958	62,774	972,184
	Sheet, plate, and foil	(NA)	575,176	22,408	552,768	657,646	30,449	627,197
	Sheet and plate	(NA)	506,938	22,408	484,530	578,758	30,449	548,309
	Sheet	(NA)	489,397	22,408	466,989	557,216	30,449	526,767
33532 21	Nonheat-treatable	25	470,662	22,408	448,254	532,790	30,449	502,341
33532 25	Heat-treatable	7	18,735	(1)	18,735	24,426	(1)	24,426
	Plate	(NA)	17,541	(1)	17,541	21,542	(1)	21,542
33531 15	Nonheat-treatable	8	5,379	(1)	5,379	6,736	(1)	6,736
33531 13	Heat-treatable	5	12,162	(1)	12,162	14,806	(1)	14,806
33533 51	Foil	15	68,238	(1)	68,238	78,888	(1)	78,888
	Rod, wire, and cable	(NA)	68,888	19,931	48,957	89,022	26,109	62,913
	Rod and bare wire	(NA)	27,607	19,931	7,676	31,885	26,109	5,776
33552 25	Drawing stock (redraw rod)	7	18,969	19,931	-962	22,354	26,109	-3,755
33551 31	Bare wire	21	8,638	(2)	8,638	9,531	(2)	9,531
	Cable and insulated wire	(NA)	41,281	(2)	41,281	57,137	(2)	57,137
33551 65	ACSR and aluminum cable, bare	9	13,730	(2)	13,730	18,206	(2)	18,206
33570 25	Wire and cable, insulated or covered	21	27,551	-	27,551	38,931	-	38,931
	Rod, bar, pipe, tube and shapes	(NA)	226,616	4,553	222,063	266,081	6,216	259,865
	Rod and bar (rolled and extruded)	(NA)	19,977	4,553	15,424	22,899	6,216	16,683
33541 15	Alloys other than 2,000 and 7,000 series	16	11,735	4,553	7,182	12,976	6,216	6,760
33541 18	Alloys in 2,000 and 7,000 series	6	8,242	(3)	8,242	9,923	(3)	9,923
	Pipe and tube (extruded and drawn)	(NA)	21,986	(3)	21,986	25,055	(3)	25,055
33542 43	Alloys other than 2,000 and 7,000 series	31	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	4	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	184,653	(3)	184,653	218,127	(3)	218,127
33541 25	Alloys other than 2,000 and 7,000 series	106	179,565	(3)	179,565	211,095	(3)	211,095
33541 28	Alloys in 2,000 and 7,000 series	6	5,088	(3)	5,088	7,032	(3)	7,032
	All other	(NA)	16,182	(3)	16,182	22,209	(3)	22,209
	Powder and paste	(NA)	5,419	(3)	5,419	8,743	(3)	8,743
33991 13	Atomized	5	3,446	(3)	3,446	6,011	(3)	6,011
33991 16	Other flake, powder and paste	7	1,973	-	1,973	2,732	-	2,732
	Forgings and impacts	(NA)	10,763	-	10,763	13,466	-	13,466
34631 21	Forgings	18	7,659	-	7,659	9,107	-	9,107
34631 41	Impacts	9	3,104	-	3,104	4,359	-	4,359

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in November 1986 are as follows: total, 6,922 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in October 1986 have been revised as follows: total, 21,791 thousand pounds; sheet, plate, and foil, 5,000 to 10,000 thousand pounds; redraw rod and wire, 10,000 to 20,000 thousand pounds; other products, 1,000 to 2,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
NOVEMBER 1986						
Total	886,862	679,748	207,114	46,892	6,922	39,970
Sheet, plate, and foil	575,176	537,454	37,722	22,408	(D)	(D)
Drawing stock, wire, and cable	68,888	47,775	21,113	19,931	(D)	(D)
Rod and bare wire	27,607	18,554	9,053	19,931	(D)	(D)
Cable and insulated wire	41,281	29,221	12,060	-	-	-
Rod, bar, pipe, tube, and shapes	226,616	84,446	142,170	4,553	(D)	(D)
All other[1]	16,182	10,073	6,109	-	-	-
OCTOBER 1986						
Total	1,034,958	791,497	243,461	62,774	16,368	46,406
Sheet, plate, and foil	657,646	613,913	43,733	30,449	(D)	(D)
Drawing stock, wire, and cable	89,022	60,175	28,847	26,109	(D)	(D)
Rod and bare wire	31,885	22,192	9,693	26,109	(D)	(D)
Cable and insulated wire	57,137	37,983	19,154	-	-	-
Rod, bar, pipe, tube, and shapes	266,081	103,642	162,439	6,216	(D)	(D)
All other[1]	22,209	13,767	8,442	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	November 1986				October 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	4,904,432	4,112,909	617,457	174,066	4,926,735	4,114,352	626,462	185,921
Ingot	1,880,843	1,566,024	233,817	81,002	1,896,250	1,575,077	239,243	81,930
Scrap	599,508	443,385	63,059	93,064	621,384	451,582	65,811	103,991
Other	2,424,081	2,103,500	320,581	-	2,409,101	2,087,693	321,408	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	November 1986	October 1986
Ingot and mill products (excluding forgings, but including forging stock)	8,946	11,025
Sheet and plate	4,658	5,451
Other (including ingot)	4,288	5,574
Forgings and impacts	1,026	1,034

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	NOVEMBER 1986						
	Mill products[6]	801,656	43,753	5.4	106,897	864,800	12.4
33532 21 33532 25 33531 13 33531 15	Sheet and plate	484,530	35,039	7.2	85,684	535,175	16.0
33533 51	Foil	68,238	1,492	2.2	6,248	72,994	8.6
33552 25 33541 15 33541 18	Rod and bar	14,462	4,062	28.1	9,621	20,021	48.1
33551 31	Bare wire	8,638	479	5.5	1,262	9,421	13.4
33551 65	Bare cable	13,730	111	0.8	403	14,022	2.9
33541 25 33541 28	Extruded shapes	184,653	1,480	0.8	1,796	184,969	1.0
33542 43 33542 45	Pipe and tube (extruded and drawn)	21,986	710	3.2	740	22,016	3.4
33991 13 33991 16	Powder and paste	5,419	380	7.0	1,143	6,182	18.5
	OCTOBER 1986						
	Mill products[6]	919,787	39,793	4.3	93,203	973,197	9.6
33532 21 33532 25 33531 13 33531 15	Sheet and plate	548,309	34,001	6.2	63,700	578,008	11.0
33533 51	Foil	78,888	1,077	1.4	4,766	82,577	5.8
33552 25 33541 15 33541 18	Rod and bar	12,928	1,853	14.3	19,899	30,974	64.2
33551 31	Bare wire	9,531	549	5.8	964	9,946	9.7
33551 65	Bare cable	18,206	52	0.3	564	18,718	3.0
33541 25 33541 28	Extruded shapes	218,127	1,131	0.5	1,236	218,232	0.6
33542 43 33542 45	Pipe and tube (extruded and drawn)	25,055	610	2.4	823	25,268	3.2
33991 13 33991 16	Powder and paste	8,743	520	5.9	1,251	9,474	13.2

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

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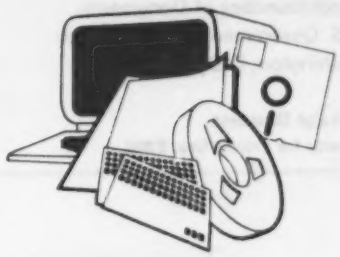

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DECEMBER 1986

M33-2(86)-12
Issued March 1987

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Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot[1]	
1986				
December	1,043,503	870,004	173,499	4,939,140
November	1,038,031	840,856	197,175	4,901,768
October	1,219,358	972,184	247,174	4,926,735
September	1,117,216	931,887	185,329	4,976,319
August	1,132,781	914,821	217,960	5,058,599
July	1,114,544	907,510	207,034	5,083,533
June	1,202,649	937,794	264,855	5,043,609
May	1,388,288	1,086,071	302,217	5,044,774
April	1,340,491	1,063,924	276,567	5,097,413
March	1,394,656	1,029,582	365,074	5,053,946
February	1,187,261	913,192	274,069	5,158,217
January	1,183,775	945,604	238,171	5,160,740

[1]Of this total, net shipments of extrusion ingot was 7,246 for December 1986 and 24,649 for November 1986. Net shipments of other ingot was 166,253 for December 1986 and 172,526 for November 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Office of Basic Industries, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233 or call Ed Coan, (301) 763-7476.
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Table 2. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Aluminum shape and type of producer	Gross shipments	Domestic receipts	Imports receipts
DECEMBER 1986			
Aluminum ingot and mill products[1]	1,506,662	326,481	136,678
Integrated	923,098	(D)	(2)
Smelters	139,181	(D)	(2)
All other	444,383	189,213	(2)
Imports (ingot only)	170,130	-	-
Nonintegrated	274,253	189,213	(2)
Mill products[3]	907,267	37,263	(2)
By type of producer:			
Integrated	654,157	7,265	(2)
Nonintegrated	253,110	29,998	(2)
Ingot[4]	599,395	289,218	136,678
By type of producer:			
Integrated	268,941	(D)	(D)
Smelters[5]	139,181	(D)	(D)
All other	191,273	159,215	(D)
Imports[6]	170,130	-	-
Nonintegrated	21,143	159,215	(D)
By type of ingot:			
Extrusion ingot	108,114	100,868	(7)
Integrated	51,537	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	86,461	(D)
Imports[6]	16,539	-	-
Nonintegrated	(D)	86,461	(D)
Other ingot (primary and secondary)	491,281	188,350	136,678
Integrated	217,404	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	72,754	(D)
Imports[6]	153,591	-	-
Nonintegrated	(D)	72,754	(D)
NOVEMBER 1986			
Aluminum ingot and mill products[1]	1,473,028	314,626	120,371
Integrated	906,153	(D)	(2)
Smelters	131,343	(D)	(2)
All other	435,532	186,468	(2)
Imports (ingot only)	200,057	-	-
Nonintegrated	235,475	186,468	(2)
Mill products[3]	887,403	46,547	(2)
By type of producer:			
Integrated	679,748	6,900	(2)
Nonintegrated	207,655	39,647	(2)
Ingot[4]	585,625	268,079	120,371
By type of producer:			
Integrated	226,405	(D)	(D)
Smelters[5]	131,343	(D)	(D)
All other	227,877	146,821	(D)
Imports[6]	200,057	-	-
Nonintegrated	27,820	146,821	(D)
By type of ingot:			
Extrusion ingot	108,994	84,345	(7)
Integrated	33,134	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	67,681	(D)
Imports[6]	28,753	-	-
Nonintegrated	(D)	67,681	(D)
Other ingot (primary and secondary)	476,631	183,734	120,371
Integrated	193,271	(D)	(D)
Smelters[5]	(D)	(D)	(D)
All other	(D)	79,140	(D)
Imports[6]	171,304	-	-
Nonintegrated	(D)	79,140	(D)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid disclosure from higher-level totals.

[1] See note, table 3.

[2] See table 3 for detailed figures.

[3] Share of the domestic producer's gross shipments accounted for by the four largest companies shipping ingot (including billet and secondary) as a percent of the total for December was 36 and for November was 37.

[4] Share of the domestic producer's gross shipments accounted for by the four largest companies shipping mill products as a percent of the total for December was 56 and for November was 54.

[5] The number of smelter operators shipping ingot is 37.

[6] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.

[7] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS

(Thousands of pounds)

Product code	Product description	Number of companies reporting shipments	December 1986			November 1986		
			Gross shipments	Receipts	Net shipments	Gross shipments	Receipts	Net shipments
	Aluminum mill products	(NA)	907,267	37,263	870,004	887,403	46,547	840,856
	Sheet, plate, and foil	(NA)	594,327	17,181	577,146	575,176	22,236	552,940
	Sheet and plate	(NA)	532,017	17,181	514,836	506,938	22,236	484,702
	Sheet	(NA)	512,204	17,181	495,023	489,397	22,236	467,161
33532 21	Nonheat-treatable	25	494,757	17,181	477,576	470,662	22,236	448,426
33532 25	Heat-treatable	7	17,447	(1)	17,447	18,735	(1)	18,735
	Plate	(NA)	19,813	(1)	19,813	17,541	(1)	17,541
33531 15	Nonheat-treatable	8	4,640	(1)	4,640	5,379	(1)	5,379
33531 13	Heat-treatable	5	15,173	(1)	5,173	12,162	(1)	12,162
33533 51	Foil	15	62,310	(1)	62,310	68,238	(1)	68,238
	Rod, wire, and cable	(NA)	69,800	16,165	53,635	68,737	20,123	48,614
	Rod and bare wire	(NA)	25,243	16,165	9,078	27,544	20,123	7,421
33552 25	Drawing stock (redraw rod)	7	16,927	16,165	762	18,969	20,123	-1,154
33551 31	Bare wire	21	8,316	(2)	8,316	8,575	(2)	8,575
	Cable and insulated wire	(NA)	44,557	(2)	44,557	41,193	(2)	41,193
33551 65	ACSR and aluminum cable, bare	9	13,761	(2)	13,761	13,730	(2)	13,730
33570 25	Wire and cable, insulated or covered	21	30,796	-	30,796	27,463	-	27,463
	Rod, bar, pipe, tube and shapes	(NA)	224,738	3,917	220,821	227,058	4,188	222,870
	Rod and bar (rolled and extruded)	(NA)	19,235	3,917	15,318	20,007	4,188	15,819
33541 15	Alloys other than 2,000 and 7,000 series	16	11,349	3,917	7,432	11,765	4,188	7,577
33541 18	Alloys in 2,000 and 7,000 series	6	7,886	(3)	7,886	8,242	(3)	8,242
	Pipe and tube (extruded and drawn)	(NA)	19,109	(3)	19,109	22,040	(3)	22,040
33542 43	Alloys other than 2,000 and 7,000 series	31	(D)	(3)	(D)	(D)	(3)	(D)
33542 45	Alloys in 2,000 and 7,000 series	4	(D)	(3)	(D)	(D)	(3)	(D)
	Extruded shapes	(NA)	186,394	(3)	186,394	185,011	(3)	185,011
33541 25	Alloys other than 2,000 and 7,000 series	106	180,013	(3)	180,013	179,923	(3)	179,923
33541 28	Alloys in 2,000 and 7,000 series	6	6,381	(3)	6,381	5,088	(3)	5,088
	All other	(NA)	18,402	(3)	18,402	16,432	(3)	16,432
	Powder and paste	(NA)	6,813	(3)	6,813	5,589	(3)	5,589
33991 13	Atomized	5	4,382	(3)	4,382	3,446	(3)	3,446
33991 16	Other flake, powder and paste	7	2,431	-	2,431	2,143	-	2,143
	Forgings and impacts	(NA)	11,589	-	11,589	10,843	-	10,843
34631 21	Forgings	18	8,007	-	8,007	7,735	-	7,735
34631 41	Impacts	9	3,582	-	3,582	3,108	-	3,108

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. In addition, quantities of imports received in December 1986 are as follows: total, 9,493 thousand pounds; sheet, plate, and foil, 2,000 to 5,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

Quantities of imports received in November 1986 have been revised as follows: total, 6,918 thousand pounds; sheet, plate, and foil, 1,000 to 2,000 thousand pounds; redraw rod and wire, 5,000 to 10,000 thousand pounds; other products, 500 to 1,000 thousand pounds.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

[1]Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2]Data included with drawing stock to avoid disclosing figures for individual companies.
[3]Data included with rod and bar are alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. GROSS SHIPMENTS AND RECEIPTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER: 1986

(Thousands of pounds)

Product description	Shipments			Receipts		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
DECEMBER 1986						
Total	907,267	654,157	253,110	37,263	7,265	29,998
Sheet, plate, and foil	594,327	510,819	83,508	17,181	(D)	(D)
Drawing stock, wire, and cable	69,800	47,423	22,377	16,165	(D)	(D)
Rod and bare wire	25,243	17,259	7,984	16,165	(D)	(D)
Cable and insulated wire	44,557	30,164	14,393	-	-	-
Rod, bar, pipe, tube, and shapes	224,738	85,046	139,692	3,917	(D)	(D)
All other[1]	18,402	10,869	7,533	-	-	-
NOVEMBER 1986						
Total	887,403	679,748	207,655	46,547	6,900	39,647
Sheet, plate, and foil	575,176	537,454	37,722	22,236	(D)	(D)
Drawing stock, wire, and cable	68,737	47,775	20,962	20,123	(D)	(D)
Rod and bare wire	27,544	18,554	8,990	20,123	(D)	(D)
Cable and insulated wire	41,193	29,221	11,972	-	-	-
Rod, bar, pipe, tube, and shapes	227,058	84,446	142,612	4,188	(D)	(D)
All other[1]	16,432	10,073	6,359	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data for shipments of all other include powder and paste and forgings and impacts.

Table 5. INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP, BY TYPE OF PRODUCER

(Thousands of pounds)

Product description	December 1986				November 1986			
	Total	Integrated	Nonintegrated	Smelters	Total	Integrated	Nonintegrated	Smelters
Total	4,939,140	4,104,789	638,919	195,432	4,901,768	4,112,909	615,536	173,323
Ingot	1,982,433	1,653,083	250,901	78,449	1,879,038	1,566,024	232,329	80,685
Scrap	641,576	448,903	75,690	116,983	597,876	443,385	61,853	92,638
Other	2,315,131	2,002,803	312,328	-	2,424,854	2,103,500	321,354	-

- Represents zero.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS

(Thousands of pounds)

Product description	December 1986	November 1986
Ingot and mill products (excluding forgings, but including forging stock)	8,459	8,946
Sheet and plate	4,003	4,658
Other (including ingot)	4,456	4,288
Forgings and impacts	1,232	918

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration, and Federal Aviation Administration, etc.

Table 7. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS

(Quantity in thousands of pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' net shipments	Imports for consumption[3 4]	Apparent consumption[5]	Percent imports to apparent consumption
	DECEMBER 1986						
	Mill products[6]	827,619	30,015	3.6	63,986	861,590	7.4
33532 21 33532 25 33531 13 33531 15	Sheet and plate	514,836	24,077	4.7	51,611	542,370	9.5
33533 51	Foil	62,310	1,100	1.8	5,243	66,453	7.9
33552 25 33541 15 33541 18	Rod and bar	16,080	1,148	7.1	3,437	18,369	18.7
33551 31	Bare wire	8,316	366	4.4	746	8,696	8.6
33551 65	Bare cable	13,761	80	0.6	47	13,728	0.3
33541 25 33541 28	Extruded shapes	186,394	2,134	1.1	2,454	186,714	1.3
33542 43 33542 45	Pipe and tube (extruded and drawn)	19,109	654	3.4	338	18,793	1.8
33991 13 33991 16	Powder and paste	6,813	456	6.7	110	6,467	1.7
	NOVEMBER 1986						
	Mill products[6]	802,550	43,753	5.4	106,897	865,694	12.3
33532 21 33532 25 33531 13 33531 15	Sheet and plate	484,702	35,039	7.2	85,684	535,347	16.0
33533 51	Foil	68,238	1,492	2.2	6,248	72,994	8.6
33552 25 33541 15 33541 18	Rod and bar	14,665	4,062	27.7	9,621	20,224	47.6
33551 31	Bare wire	8,575	479	5.6	1,262	9,358	13.5
33551 65	Bare cable	13,730	111	0.8	403	14,022	2.9
33541 25 33541 28	Extruded shapes	185,011	1,480	0.8	1,796	185,327	1.0
33542 43 33542 45	Pipe and tube (extruded and drawn)	22,040	710	3.2	740	22,070	3.4
33991 13 33991 16	Powder and paste	5,589	380	6.8	1,143	6,352	18.0

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 8 in the January 1986 report, M33-2(86)-1, issued April 1986.

[1]Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]These import figures differ from those included in the note on table 3. The figures in table 3 are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See note on table 3 for information relative to the amounts of such imports received by aluminum rolling mills.

[6]Excludes insulated wire and cable and forgings and impacts.

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Aluminum Ingot and Mill Products

SUMMARY FOR 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS
INTERNATIONAL TRADE ADMINISTRATION

M33-2(86)-13
Issued May 1987

SUMMARY OF FINDINGS

Net shipments of aluminium ingot and mill products totaled 14,382 million pounds in 1986, a 1-percent decrease compared to 14,456 million pounds in 1985. The aluminium ingot net shipments total for 1986 was 2,964 million pounds, 12 percent below the corresponding 1985 total of 3,365 million pounds. Net shipments of aluminium mill products in 1986 amounted to 11,418 million, showing a 3-percent increase from 11,092 million in 1985.

A description of the survey methodology and other related information appear on page 14.

Table 1. NET SHIPMENTS AND INVENTORIES OF ALUMINUM INGOT AND MILL PRODUCTS: 1986 AND 1985

(Thousands of pounds)

Month and year	Net shipments of aluminum			Month-end aluminum inventories
	Ingot and mill products	Mill products	Ingot	
1986				
Total	14,381,747	11,418,221	2,963,526	(X)
December	1,062,287	871,959	190,328	4,927,713
November	1,041,977	840,322	201,655	4,901,768
October	1,219,238	972,064	247,174	4,926,735
September	1,116,533	931,881	184,652	4,977,155
August	1,131,443	914,878	216,565	5,057,099
July	1,114,312	907,542	206,770	5,083,016
June	1,202,338	937,829	264,509	5,044,496
May	1,390,230	1,086,071	304,159	5,044,365
April	1,339,606	1,063,923	275,683	5,096,795
March	1,400,947	1,030,996	369,951	5,053,334
February	1,176,274	913,302	262,972	5,157,589
January	1,186,562	947,454	239,108	5,165,110
1985				
Total	14,456,235	11,091,503	3,364,732	(X)
December	1,031,978	820,658	211,320	5,165,403
November	1,122,732	850,147	272,585	5,240,716
October	1,277,767	980,077	297,690	5,324,328
September	1,263,930	921,642	342,288	5,439,082
August	1,228,482	970,859	257,623	5,511,738
July	1,198,518	940,428	258,090	5,578,681
June	1,208,342	937,620	270,722	5,595,244
May	1,303,590	994,540	309,050	5,712,103
April	1,227,520	967,196	260,324	5,748,976
March	1,291,003	967,028	323,975	5,795,796
February	1,136,803	863,080	273,723	5,824,039
January	1,165,570	878,228	287,342	5,900,182

Note: Use December inventory figures for annual total inventory.

(X) Not applicable.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ed Coan, (301) 763-7476.
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Table 2A. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS, BY MONTH: 1986

(Thousands of pounds)

Product description	Total				January				February			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	20,661,603	4,605,325	1,674,531	14,381,747	1,744,473	406,189	151,722	1,186,562	1,717,554	383,492	157,788	1,176,274
Integrated	12,919,488	(D)	(D)	(X)	1,157,619	(D)	(D)	(X)	1,100,297	(D)	(D)	(X)
Smelters	1,700,959	(D)	-	(X)	161,123	(D)	-	(X)	150,410	(D)	-	(X)
All other	6,041,156	2,543,747	(D)	(X)	425,731	225,552	(D)	(X)	466,847	215,006	(D)	(X)
Imports (ingot only)	2,973,533	-	-	-	180,425	-	-	-	221,316	-	-	-
Nonintegrated	3,067,623	2,543,747	(D)	(X)	245,306	225,552	(D)	(X)	245,531	215,006	(D)	(X)
Mill products[4]	12,111,727	693,506	(5)	11,418,221	1,007,791	60,337	(5)	947,454	968,258	54,956	(5)	913,302
By type of producer:												
Integrated	9,364,348	181,833	(5)	9,182,515	787,688	17,849	(5)	769,839	748,928	11,219	(5)	737,709
Nonintegrated	2,747,379	511,673	(5)	2,235,706	220,103	42,488	(5)	177,615	219,330	43,737	(5)	175,593
Ingot[6]	8,549,876	3,911,819	1,674,531	2,963,526	736,682	345,852	151,722	239,108	749,296	328,536	157,788	262,972
By type of producer:												
Integrated	3,555,140	(D)	(D)	(X)	369,931	(D)	(D)	(X)	351,369	(D)	(D)	(X)
Smelters	1,700,959	(D)	-	(X)	161,123	(D)	-	(X)	150,410	(D)	-	(X)
All other	3,293,777	2,032,074	(D)	(X)	205,628	183,064	(D)	(X)	247,517	171,269	(D)	(X)
Imports[1]	2,973,533	-	-	-	180,425	-	-	-	221,316	-	-	-
Nonintegrated	320,244	2,032,074	(D)	(X)	25,203	183,064	(D)	(X)	26,201	171,269	(D)	(X)
By type of ingot:												
Extrusion ingot	1,546,982	1,245,090	(7)	301,892	131,128	112,389	(7)	18,289	134,829	110,597	(7)	24,232
Integrated	693,932	(D)	(D)	(X)	63,081	(D)	(D)	(X)	63,290	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	1,033,364	(D)	(X)	(D)	95,465	(D)	(X)	(D)	94,834	(D)	(X)
Imports[1]	341,081	-	-	-	30,590	-	-	-	32,128	-	-	-
Nonintegrated	(D)	1,033,364	(D)	(X)	(D)	95,465	(D)	(X)	(D)	94,834	(D)	(X)
Other ingot (primary and secondary)	7,002,894	2,666,729	1,674,531	2,661,634	605,554	233,013	151,722	220,819	614,467	217,939	157,788	238,740
Integrated	2,861,208	(D)	(D)	(X)	306,820	(D)	(D)	(X)	288,079	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	998,710	(D)	(X)	(D)	87,599	(D)	(X)	(D)	76,435	(D)	(X)
Imports[1]	2,032,452	-	-	-	149,835	-	-	-	189,188	-	-	-
Nonintegrated	(D)	998,710	(D)	(X)	(D)	87,599	(D)	(X)	(D)	76,435	(D)	(X)

Product description	March				April				May			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,928,854	441,402	86,505	1,400,947	1,910,755	396,905	174,244	1,339,606	1,987,518	442,168	155,120	1,390,230
Integrated	1,231,257	(D)	(D)	(X)	1,202,100	(D)	(D)	(X)	1,246,480	(D)	(D)	(X)
Smelters	154,691	(D)	-	(X)	148,184	(D)	-	(X)	143,859	(D)	-	(X)
All other	542,906	221,096	(D)	(X)	560,471	228,758	(D)	(X)	597,179	226,304	(D)	(X)
Imports (ingot only)	280,841	-	-	-	288,324	-	-	-	329,451	-	-	-
Nonintegrated	262,065	221,096	(D)	(X)	272,147	228,758	(D)	(X)	267,728	226,304	(D)	(X)
Mill products[4]	1,094,013	63,017	(5)	1,030,996	1,126,921	62,998	(5)	1,063,923	1,160,059	73,988	(5)	1,086,071
By type of producer:												
Integrated	860,456	16,395	(5)	844,061	883,295	15,218	(5)	868,077	917,413	23,867	(5)	893,546
Nonintegrated	233,557	46,622	(5)	186,935	243,626	47,780	(5)	195,846	242,646	50,121	(5)	192,525
Ingot[6]	834,841	378,385	86,505	369,951	783,834	333,907	174,244	275,683	827,459	368,180	155,120	304,159
By type of producer:												
Integrated	370,801	(D)	(D)	(X)	318,805	(D)	(D)	(X)	329,067	(D)	(D)	(X)
Smelters	154,691	(D)	-	(X)	148,184	(D)	-	(X)	143,859	(D)	-	(X)
All other	309,349	174,474	(D)	(X)	316,845	180,978	(D)	(X)	354,533	176,183	(D)	(X)
Imports[1]	280,841	-	-	-	288,324	-	-	-	329,451	-	-	-
Nonintegrated	28,508	174,474	(D)	(X)	28,521	180,978	(D)	(X)	25,082	176,183	(D)	(X)
By type of ingot:												
Extrusion ingot	133,065	113,756	(7)	19,309	142,782	116,059	(7)	26,723	141,693	114,928	(7)	26,765
Integrated	68,638	(D)	(D)	(X)	73,752	(D)	(D)	(X)	70,604	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	95,035	(D)	(X)	(D)	96,633	(D)	(X)	(D)	92,359	(D)	(X)
Imports[1]	23,632	-	-	-	26,812	-	-	-	30,003	-	-	-
Nonintegrated	(D)	95,035	(D)	(X)	(D)	96,633	(D)	(X)	(D)	92,359	(D)	(X)
Other ingot (primary and secondary)	701,776	264,629	86,505	350,642	641,052	217,848	174,244	248,960	685,766	253,252	155,120	277,394
Integrated	302,163	(D)	(D)	(X)	245,053	(D)	(D)	(X)	258,463	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	79,439	(D)	(X)	(D)	84,345	(D)	(X)	(D)	83,824	(D)	(X)
Imports[1]	257,209	-	-	-	261,512	-	-	-	299,448	-	-	-
Nonintegrated	(D)	79,439	(D)	(X)	(D)	84,345	(D)	(X)	(D)	83,824	(D)	(X)

See footnotes at end of table.

Table 2A. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS, BY MONTH: 1986--Continued

(Thousands of pounds)

Product description	June			July				August			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,715,289	386,537	126,414	1,202,338	1,656,126	382,412	159,402	1,114,312	1,637,915	343,314	163,158	1,131,443
Integrated	995,552	(D)	(D)	(X)	1,012,654	(D)	(D)	(X)	977,466	(D)	(D)	(X)
Smelters	132,694	(D)	-	(X)	124,366	(D)	-	(X)	131,323	(D)	-	(X)
All other	587,043	218,714	(D)	(X)	519,106	201,080	(D)	(X)	529,126	199,736	(D)	(X)
Imports (ingot only)	317,693	-	-	-	267,140	-	-	-	271,770	-	-	-
Nonintegrated	269,350	218,714	(D)	(X)	251,966	201,080	(D)	(X)	257,356	199,736	(D)	(X)
Mill products[4]	1,002,330	64,501	(5)	937,829	957,727	50,185	(5)	907,542	971,866	56,988	(5)	914,878
By type of producer:												
Integrated	755,746	19,096	(5)	736,650	734,393	11,705	(5)	722,688	742,249	19,057	(5)	723,192
Nonintegrated	246,584	45,405	(5)	201,179	223,334	38,480	(5)	184,854	229,617	37,931	(5)	191,686
Ingot[6]	712,959	322,036	126,414	264,509	698,399	332,227	159,402	206,770	666,049	286,326	163,158	216,565
By type of producer:												
Integrated	239,806	(D)	(D)	(X)	278,261	(D)	(D)	(X)	235,217	(D)	(D)	(X)
Smelters	132,694	(D)	-	(X)	124,366	(D)	-	(X)	131,323	(D)	-	(X)
All other	340,459	173,309	(D)	(X)	295,772	162,600	(D)	(X)	299,509	161,805	(D)	(X)
Imports[1]	317,693	-	-	-	267,140	-	-	-	271,770	-	-	-
Nonintegrated	22,766	173,309	(D)	(X)	28,632	162,600	(D)	(X)	27,739	161,805	(D)	(X)
By type of ingot:												
Extrusion ingot	126,799	110,715	(7)	16,084	136,593	103,331	(7)	33,262	121,141	81,300	(7)	39,841
Integrated	62,298	(D)	(D)	(X)	56,227	(D)	(D)	(X)	46,885	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	91,753	(D)	(X)	(D)	82,967	(D)	(X)	(D)	71,213	(D)	(X)
Imports[1]	25,523	-	-	-	33,713	-	-	-	30,515	-	-	-
Nonintegrated	(D)	91,753	(D)	(X)	(D)	82,967	(D)	(X)	(D)	71,213	(D)	(X)
Other ingot (primary and secondary)	586,160	211,321	126,414	248,425	561,806	228,896	159,402	173,508	544,908	205,026	163,158	176,724
Integrated	177,508	(D)	(D)	(X)	222,034	(D)	(D)	(X)	188,332	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	81,556	(D)	(X)	(D)	79,633	(D)	(X)	(D)	90,592	(D)	(X)
Imports[1]	292,170	-	-	-	233,427	-	-	-	241,255	-	-	-
Nonintegrated	(D)	81,556	(D)	(X)	(D)	79,633	(D)	(X)	(D)	90,592	(D)	(X)

Product description	September				October			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,629,072	389,080	123,459	1,116,533	1,735,349	394,921	121,190	1,219,238
Integrated	1,017,997	(D)	(D)	(X)	1,078,611	(D)	(D)	(X)
Smelters	139,009	(D)	-	(X)	148,091	(D)	-	(X)
All other	472,066	216,225	(D)	(X)	508,647	222,119	(D)	(X)
Imports (ingot only)	207,287	-	-	-	239,099	-	-	-
Nonintegrated	264,779	216,225	(D)	(X)	269,548	222,119	(D)	(X)
Mill products[4]	990,091	58,210	(5)	931,881	1,034,838	62,774	(5)	972,064
By type of producer:								
Integrated	752,910	17,003	(5)	735,907	791,377	16,368	(5)	775,009
Nonintegrated	237,181	41,207	(5)	195,974	243,461	46,406	(5)	197,055
Ingot[6]	638,981	330,870	123,459	184,652	700,511	332,147	121,190	247,174
By type of producer:								
Integrated	265,087	(D)	(D)	(X)	287,234	(D)	(D)	(X)
Smelters	139,009	(D)	-	(X)	148,091	(D)	-	(X)
All other	234,885	175,018	(D)	(X)	265,186	175,713	(D)	(X)
Imports[1]	207,287	-	-	-	239,099	-	-	-
Nonintegrated	27,598	175,018	(D)	(X)	26,087	175,713	(D)	(X)
By type of ingot:								
Extrusion ingot	128,867	100,579	(7)	28,288	131,191	94,419	(7)	36,772
Integrated	55,220	(D)	(D)	(X)	48,842	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	84,101	(D)	(X)	(D)	79,340	(D)	(X)
Imports[1]	25,998	-	-	-	36,875	-	-	-
Nonintegrated	(D)	84,101	(D)	(X)	(D)	79,340	(D)	(X)
Other ingot (primary and secondary)	510,114	230,291	123,459	156,364	569,320	237,728	121,190	210,402
Integrated	209,867	(D)	(D)	(X)	238,392	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	90,917	(D)	(X)	(D)	96,373	(D)	(X)
Imports[1]	181,289	-	-	-	202,224	-	-	-
Nonintegrated	(D)	90,917	(D)	(X)	(D)	96,373	(D)	(X)

See footnotes at end of table.

Table 2A. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS, BY MONTH: 1986--Continued

(Thousands of pounds)

Product description	November				December			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,476,995	314,647	120,371	1,041,977	1,521,703	324,258	135,158	1,062,287
Integrated	910,120	(D)	(D)	(X)	989,335	(D)	(D)	(X)
Smelters	129,723	(D)	-	(X)	137,486	(D)	-	(X)
All other	437,152	186,468	(D)	(X)	394,882	182,689	(D)	(X)
Imports (ingot only)	200,057	-	-	-	170,130	-	-	-
Nonintegrated	237,095	186,468	(D)	(X)	224,752	182,689	(D)	(X)
Mill products[4]	886,891	46,569	(5)	840,322	910,942	38,983	(5)	871,959
By type of producer:								
Integrated	679,236	6,922	(5)	672,314	710,657	7,134	(5)	703,523
Nonintegrated	207,655	39,647	(5)	168,008	200,285	31,849	(5)	168,436
Ingot[6]	590,104	268,078	120,371	201,655	610,761	285,275	135,158	190,328
By type of producer:								
Integrated	230,884	(D)	(D)	(X)	278,678	(D)	(D)	(X)
Smelters	129,723	(D)	-	(X)	137,486	(D)	-	(X)
All other	229,497	146,821	(D)	(X)	194,597	150,840	(D)	(X)
Imports[1]	200,057	-	-	-	170,130	-	-	-
Nonintegrated	29,440	146,821	(D)	(X)	24,467	150,840	(D)	(X)
By type of ingot:								
Extrusion ingot	108,994	84,344	(7)	24,650	109,900	102,223	(7)	7,677
Integrated	33,134	(D)	(D)	(X)	51,961	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	67,681	(D)	(X)	(D)	81,983	(D)	(X)
Imports[1]	28,753	-	-	-	16,539	-	-	-
Nonintegrated	(D)	67,681	(D)	(X)	(D)	81,983	(D)	(X)
Other ingot (primary and secondary)	481,110	183,734	120,371	177,005	500,861	183,052	135,158	182,651
Integrated	197,750	(D)	(D)	(X)	226,717	(D)	(D)	(X)
Smelters	(D)	(D)	-	(X)	(D)	(D)	-	(X)
All other	(D)	79,140	(D)	(X)	(D)	68,857	(D)	(X)
Imports[1]	171,304	-	-	-	153,591	-	-	-
Nonintegrated	(D)	79,140	(D)	(X)	(D)	68,857	(D)	(X)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (X) Not applicable.

[1] Gross shipments of mill products represent total shipments by domestic producers to customers, including other producers, and shipments by domestic producers to their own fabricating departments which manufacture beyond the level of mill shapes. Ingot gross shipments include shipments to the United States from foreign sources as published in Bureau of the Census report IM 146, U.S. Imports for Consumption. For 1986, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.

[2] Represents import receipts of ingot only.

[3] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape. Ingot data are derived by subtracting receipts from shipments reported.

[4] Share of shipments of mill products accounted for by the four largest companies, as a percentage, are as follows: 1986, 56; January, 58; February, 55; March 56; April, 57; May, 59; June, 51; July, 55; August, 57; September, 56; October, 56; November, 54; December, 56.

[5] Import receipts of mill products for 1986 totaled 135,168 thousand pounds. The monthly figures for 1986 import receipts in thousand pounds are as follows: January, 9,653; February, 10,581; March, 10,910; April, 9,411; May, 12,253; June, 16,374; July, 13,726; August, 9,738; September, 4,621; October, 21,791; November, 6,918; and December, 9,192.

[6] Share of shipments of ingot (including billet and secondary) accounted for by the four largest companies, as a percentage, are as follows: 1986, 36; January, 38; February, 33; March, 37; April, 35; May, 38; June, 36; July, 34; August, 34; September, 38; October, 39; November, 37; December, 36.

[7] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 28. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS, BY MONTH: 1985

(Thousands of pounds)

Product description	Total				January				February			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	19,840,869	4,221,273	1,163,361	14,456,235	1,569,147	321,795	81,782	1,165,570	1,549,599	335,884	76,912	1,136,803
Mill products[4]	11,777,420	685,917	(5)	11,091,503	930,708	52,480	(5)	878,228	909,947	46,867	(5)	863,080
Ingot[6]	8,063,449	3,535,356	1,163,361	3,364,732	638,439	269,315	81,782	287,342	639,652	289,017	76,912	273,723
By type of producer:												
Integrated	4,115,490	(D)	(D)	(X)	313,007	(D)	(D)	(X)	351,449	(D)	(D)	(X)
Smelters	1,778,734	(D)	(D)	(X)	158,955	(D)	(D)	(X)	148,035	(D)	(D)	(X)
All other	2,169,225	2,010,240	(D)	(X)	166,477	170,520	(D)	(X)	140,168	157,535	(D)	(X)
Imports[1]	1,916,735	-	-	(X)	150,973	-	-	(X)	124,910	-	-	(X)
Nonintegrated	234,490	2,010,240	(D)	(X)	15,304	170,520	(D)	(X)	15,258	157,535	(D)	(X)
By type of ingot:												
Extrusion ingot	1,429,219	1,213,339	(7)	215,880	104,250	108,051	(7)	-3,801	106,178	104,441	(7)	1,737
Integrated	763,251	(D)	(D)	(X)	56,387	(D)	(D)	(X)	62,788	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	1,006,394	(D)	(X)	(D)	92,203	(D)	(X)	(D)	83,439	(D)	(X)
Imports[1]	283,982	-	-	(X)	29,013	-	-	(X)	23,555	-	-	(X)
Nonintegrated	(D)	1,006,394	(D)	(X)	(D)	92,203	(D)	(X)	(D)	83,439	(D)	(X)
Other ingot (primary and secondary)	6,634,230	2,322,017	1,163,361	3,148,852	534,189	161,264	81,782	291,143	533,474	184,576	76,912	271,986
Integrated	3,352,239	(D)	(D)	(X)	258,620	(D)	(D)	(X)	288,661	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	1,003,846	(D)	(X)	(D)	78,317	(D)	(X)	(D)	74,076	(D)	(X)
Imports[1]	1,630,753	-	-	(X)	121,960	-	-	(X)	101,355	-	-	(X)
Nonintegrated	(D)	1,003,846	(D)	(X)	(D)	78,317	(D)	(X)	(D)	74,076	(D)	(X)

Product description	March				April				May			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,745,578	372,214	82,361	1,291,003	1,689,578	371,447	90,611	1,227,520	1,773,635	358,167	111,878	1,303,590
Mill products[4]	1,020,894	53,866	(5)	967,028	1,031,696	54,500	(5)	967,196	1,069,982	75,442	(5)	994,540
Ingot[6]	724,684	318,348	82,361	323,975	667,882	316,947	90,611	260,324	703,653	282,725	111,878	309,050
By type of producer:												
Integrated	375,299	(D)	(D)	(X)	357,893	(D)	(D)	(X)	368,617	(D)	(D)	(X)
Smelters	152,564	(D)	(D)	(X)	140,388	(D)	(D)	(X)	154,918	(D)	(D)	(X)
All other	196,821	186,599	(D)	(X)	169,601	172,156	(D)	(X)	180,118	170,031	(D)	(X)
Imports[1]	177,383	-	-	(X)	145,918	-	-	(X)	160,209	-	-	(X)
Nonintegrated	19,438	186,599	(D)	(X)	23,683	172,156	(D)	(X)	19,909	170,031	(D)	(X)
By type of ingot:												
Extrusion ingot	125,638	110,519	(7)	15,119	119,101	110,619	(7)	8,482	117,679	103,368	(7)	14,311
Integrated	68,438	(D)	(D)	(X)	69,205	(D)	(D)	(X)	72,186	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	87,141	(D)	(X)	(D)	88,595	(D)	(X)	(D)	85,565	(D)	(X)
Imports[1]	24,882	-	-	(X)	15,072	-	-	(X)	12,480	-	-	(X)
Nonintegrated	(D)	87,141	(D)	(X)	(D)	88,595	(D)	(X)	(D)	85,565	(D)	(X)
Other ingot (primary and secondary)	599,046	207,829	82,361	308,856	548,781	206,328	90,611	251,842	585,974	179,357	111,878	294,739
Integrated	306,861	(D)	(D)	(X)	288,688	(D)	(D)	(X)	296,431	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	79,458	(D)	(X)	(D)	83,561	(D)	(X)	(D)	84,466	(D)	(X)
Imports[1]	152,521	-	-	(X)	130,846	-	-	(X)	147,729	-	-	(X)
Nonintegrated	(D)	79,458	(D)	(X)	(D)	83,561	(D)	(X)	(D)	84,466	(D)	(X)

Product description	June				July				August			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,621,300	320,898	92,060	1,208,342	1,684,387	360,292	125,577	1,198,518	1,726,385	372,912	124,991	1,228,482
Mill products[4]	1,001,298	63,678	(5)	937,620	1,000,199	59,771	(5)	940,428	1,035,826	64,967	(5)	970,859
Ingot[6]	620,002	257,220	92,060	270,722	684,188	300,521	125,577	258,090	690,559	307,945	124,991	257,621
By type of producer:												
Integrated	294,676	(D)	(D)	(X)	372,324	(D)	(D)	(X)	351,336	(D)	(D)	(X)
Smelters	136,750	(D)	(D)	(X)	139,083	(D)	(D)	(X)	158,413	(D)	(D)	(X)
All other	188,576	131,882	(D)	(X)	172,781	177,137	(D)	(X)	180,810	172,325	(D)	(X)
Imports[1]	160,967	-	-	(X)	151,211	-	-	(X)	159,762	-	-	(X)
Nonintegrated	19,609	131,882	(D)	(X)	21,570	177,137	(D)	(X)	21,048	172,325	(D)	(X)
By type of ingot:												
Extrusion ingot	110,820	95,644	(7)	15,176	113,550	99,164	(7)	14,386	125,092	104,220	(7)	20,872
Integrated	52,957	(D)	(D)	(X)	53,856	(D)	(D)	(X)	66,781	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	78,775	(D)	(X)	(D)	83,860	(D)	(X)	(D)	88,822	(D)	(X)
Imports[1]	25,280	-	-	(X)	23,509	-	-	(X)	22,267	-	-	(X)
Nonintegrated	(D)	78,775	(D)	(X)	(D)	83,860	(D)	(X)	(D)	88,822	(D)	(X)
Other ingot (primary and secondary)	509,182	161,576	92,060	255,546	570,638	201,357	125,577	243,704	565,467	203,725	124,991	236,751
Integrated	241,719	(D)	(D)	(X)	318,468	(D)	(D)	(X)	284,555	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	73,107	(D)	(X)	(D)	93,277	(D)	(X)	(D)	83,503	(D)	(X)
Imports[1]	143,687	-	-	(X)	127,702	-	-	(X)	137,495	-	-	(X)
Nonintegrated	(D)	73,107	(D)	(X)	(D)	93,277	(D)	(X)	(D)	83,503	(D)	(X)

See footnotes at end of table.

Table 28. SHIPMENTS AND RECEIPTS OF ALUMINUM INGOT AND MILL PRODUCTS, BY MONTH: 1985--Continued

(Thousands of pounds)

Product description	September				October			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,731,657	359,632	108,095	1,263,930	1,765,544	382,851	104,946	1,277,767
Mill products[4]	953,158	61,516	(5)	921,642	1,040,287	60,210	(5)	980,077
Ingot[6]	748,499	298,116	108,095	342,288	725,277	322,641	104,946	297,690
By type of producer:								
Integrated	351,767	(D)	(D)	(X)	354,401	(D)	(D)	(X)
Smelters	151,307	(D)	(D)	(X)	158,072	(D)	(D)	(X)
All other	245,425	180,344	(D)	(X)	212,804	183,718	(D)	(X)
Imports[1]	205,785	-	-	(X)	189,403	-	-	(X)
Nonintegrated	39,640	180,344	(D)	(X)	23,401	183,718	(D)	(X)
By type of ingot:								
Extrusion ingot	132,640	92,427	(7)	40,213	131,504	107,720	(7)	23,784
Integrated	64,220	(D)	(D)	(X)	67,175	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	77,988	(D)	(X)	(D)	89,702	(D)	(X)
Imports[1]	31,067	-	-	(X)	25,454	-	-	(X)
Nonintegrated	(D)	77,988	(D)	(X)	(D)	89,702	(D)	(X)
Other ingot (primary and secondary)	615,859	205,689	108,095	302,075	593,773	214,921	104,946	273,906
Integrated	287,547	(D)	(D)	(X)	287,226	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	102,356	(D)	(X)	(D)	94,016	(D)	(X)
Imports[1]	174,718	-	-	(X)	163,949	-	-	(X)
Nonintegrated	(D)	102,356	(D)	(X)	(D)	94,016	(D)	(X)

Product description	November				December			
	Gross shipments[1]	Receipts		Net shipments[3]	Gross shipments[1]	Receipts		Net shipments[3]
		Domestic	Imports[2]			Domestic	Imports[2]	
Aluminum ingot and mill products	1,540,704	348,609	69,363	1,122,732	1,443,335	316,572	94,785	1,031,978
Mill products[4]	897,295	47,148	(5)	850,147	866,130	45,472	(5)	820,658
Ingot[6]	643,409	301,461	69,363	272,585	577,205	271,100	94,785	211,320
By type of producer:								
Integrated	326,719	(D)	(D)	(X)	298,002	(D)	(D)	(X)
Smelters	144,612	(D)	(D)	(X)	135,637	(D)	(D)	(X)
All other	172,078	162,001	(D)	(X)	143,566	145,992	(D)	(X)
Imports[1]	152,809	-	-	(X)	127,405	-	-	(X)
Nonintegrated	19,269	162,001	(D)	(X)	16,161	145,992	(D)	(X)
By type of ingot:								
Extrusion ingot	121,195	88,622	(7)	32,573	121,572	88,544	(7)	33,028
Integrated	62,916	(D)	(D)	(X)	68,342	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	74,120	(D)	(X)	(D)	76,164	(D)	(X)
Imports[1]	26,098	-	-	(X)	25,325	-	-	(X)
Nonintegrated	(D)	74,120	(D)	(X)	(D)	76,164	(D)	(X)
Other ingot (primary and secondary)	522,214	212,839	69,363	240,012	455,633	182,556	94,785	178,292
Integrated	263,803	(D)	(D)	(X)	229,660	(D)	(D)	(X)
Smelters	(D)	(D)	(D)	(X)	(D)	(D)	(D)	(X)
All other	(D)	87,881	(D)	(X)	(D)	69,828	(D)	(X)
Imports[1]	126,711	-	-	(X)	102,080	-	-	(X)
Nonintegrated	(D)	87,881	(D)	(X)	(D)	69,828	(D)	(X)

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (X) Not applicable.

[1] Gross shipments of mill products represent total shipments by domestic producers to customers, including other producers, and shipments by domestic producers to their own fabricating departments which manufacture beyond the level of mill shapes. Ingot gross shipments include shipments to the United States from foreign sources as published in Bureau of the Census report IM 146, U.S. Imports for Consumption. For 1985, import numbers for ingot are: extrusion--618.0630 and 618.4500; other primary--618.0100, 0200, 0400, and 0650.

[2] Represents import receipts of ingot only.

[3] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape. Ingot data are derived by subtracting receipts from shipments reported.

[4] Share of shipments of mill products accounted for by the four largest companies, as a percentage, are as follows: 1985, 57; January, 59; February, 58; March 58; April, 58; May, 60; June, 57; July, 58; August, 58; September, 56; October, 55; November, 55; December, 57.

[5] Import receipts of mill products for 1985 totaled 204,576 thousand pounds. The monthly figures for 1985 import receipts in thousand pounds are as follows: January, 21,335; February, 13,009; March, 17,125; April, 18,778; May, 18,877; June, 18,861; July, 9,844; August, 22,481; September, 15,625; October, 22,297; November, 17,135; and December, 9,209.

[6] Share of shipments of ingot (including billet and secondary) accounted for by the four largest companies, as a percentage, are as follows: 1985, 40; January, 39; February, 40; March, 38; April, 40; May, 41; June, 37; July, 42; August, 45; September, 40; October, 38; November, 40; December, 38.

[7] Import receipts of extrusion ingot are combined with import receipts of other ingot to avoid disclosing figures for individual companies.

Table 3. NET SHIPMENTS OF ALUMINUM MILL PRODUCTS, BY MONTH AND ANNUAL GROSS SHIPMENTS AND RECEIPTS: 1986

(Thousands of pounds)

Product description	Gross shipments	Receipts	Net shipments											
			Total	January	February	March	April	May	June	July	August	September	October	November	December
Aluminum mill products	12,111,727	693,506	11,418,221	947,454	913,302	1,030,996	1,063,923	1,086,071	937,829	907,542	914,878	931,881	972,064	860,322	871,959
Sheet and plate	6,991,133	361,684	6,629,449	542,804	525,124	610,694	623,607	653,984	540,110	529,799	526,267	526,133	547,411	483,702	519,814
Sheet	6,742,356	361,684	6,381,672	519,349	506,433	585,791	597,726	629,004	522,703	513,860	509,416	505,702	525,869	466,161	499,658
Nonheat-treatable	6,497,227	361,684	6,135,537	499,088	487,153	565,067	576,213	600,371	506,971	496,817	489,778	482,885	501,443	447,426	482,325
Heat-treatable	246,135	(1)	246,135	20,261	19,280	20,724	21,513	28,633	15,732	17,043	19,638	22,817	24,426	18,735	17,333
Plate	247,777	(1)	247,777	23,455	18,691	24,903	25,881	24,980	17,407	15,939	16,851	20,431	21,542	17,541	20,156
Nonheat-treatable	72,679	(1)	72,679	7,847	4,611	6,929	8,331	7,994	4,620	5,182	4,485	5,581	6,736	5,379	4,983
Heat-treatable	175,099	(1)	175,099	15,608	14,080	17,974	17,550	16,986	12,787	10,757	12,366	14,850	14,806	12,162	15,173
Foil	860,544	(1)	860,544	73,337	74,992	79,548	79,573	77,156	70,888	58,544	61,528	74,394	78,888	68,238	63,458
Rod, wire, and cable	1,024,825	281,146	743,679	60,830	55,705	69,637	76,371	71,821	57,344	57,707	69,374	59,996	62,792	48,592	53,510
Rod and bare wire	394,864	281,146	113,718	9,866	11,784	11,810	15,797	14,320	3,960	6,232	9,580	8,639	5,655	7,399	8,876
Drawing stock (redraw wire)	290,079	281,146	8,933	2,752	4,409	3,085	7,113	4,119	-5,271	-1,687	940	-2,028	-3,876	-1,176	553
Bare wire	104,785	(2)	104,785	7,114	7,375	8,525	8,684	10,201	9,231	7,919	8,640	10,667	9,531	8,575	8,323
Cable and insulated wire	629,961	(2)	629,961	50,964	43,921	58,027	60,574	57,501	53,384	51,475	59,794	51,357	57,137	41,193	44,634
ACSR and aluminum cable, bare	233,815	(2)	233,815	21,086	16,443	21,304	23,509	24,527	18,546	20,145	23,413	19,145	18,206	13,730	13,761
Wire and cable, insulated or covered	396,146	-	396,146	29,878	27,478	36,723	37,065	32,974	34,838	31,330	36,381	32,212	38,931	27,463	30,873
Rod, bar, pipe, tube and shapes	2,994,454	50,676	2,943,778	249,452	237,726	250,643	261,464	259,824	248,736	243,961	240,106	251,228	260,764	222,870	217,004
Rod and bar (rolled and extruded)	265,649	50,676	214,973	20,391	19,551	21,323	19,226	19,287	14,863	16,944	17,665	17,918	16,683	15,819	15,303
Alloys other than 2,000 and 7,000 series	149,918	50,676	99,242	9,635	9,357	10,417	9,042	8,538	6,468	7,271	7,994	8,766	6,760	7,577	7,417
Alloys in 2,000 and 7,000 series	115,731	(3)	115,731	10,756	10,194	10,906	10,184	10,749	8,395	9,673	9,671	9,152	9,923	8,242	7,886
Pipe and tube (extruded and drawn)	269,279	(3)	269,279	23,319	21,520	22,408	23,070	24,457	22,322	22,845	20,614	22,486	25,055	22,040	19,143
Alloys other than 2,000 and 7,000 series	(D)	(3)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Alloys in 2,000 and 7,000 series	(D)	(3)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Extruded shapes	2,459,526	(3)	2,459,526	205,742	196,655	206,912	219,168	216,080	211,551	204,172	201,827	210,824	219,026	185,011	182,558
Alloys other than 2,000 and 7,000 series	2,387,545	(3)	2,387,545	199,512	191,035	200,833	212,713	210,425	207,065	197,805	194,989	205,074	211,994	179,923	176,177
Alloys in 2,000 and 7,000 series	71,981	(3)	71,981	6,230	5,620	6,079	6,455	5,655	4,486	6,367	6,838	5,750	7,032	5,088	6,381
All other	240,771	(3)	240,771	21,031	19,755	20,474	22,908	23,286	20,751	17,531	17,603	20,130	22,209	16,920	18,173
Powder and paste	96,223	(3)	96,223	8,276	7,250	8,332	9,633	11,322	7,747	7,291	6,994	8,070	8,743	6,077	6,488
Atomized	64,234	(3)	64,234	6,058	5,058	5,967	6,107	8,054	4,282	4,797	4,374	5,230	6,011	3,934	4,382
Other flake, powder and paste	31,989	-	31,989	2,218	2,192	2,385	3,526	3,268	3,465	2,494	2,620	2,840	2,732	2,143	2,106
Forgings and impacts	144,548	-	144,548	12,755	12,505	12,142	13,275	11,964	13,004	10,240	10,609	12,060	13,466	10,843	11,685
Forgings	97,326	-	97,326	8,395	8,549	8,134	8,566	7,626	8,969	6,670	7,328	8,144	9,107	7,735	8,103
Impacts	47,222	-	47,222	4,360	3,956	4,008	4,709	4,338	4,035	3,570	3,281	3,916	4,359	3,108	3,582

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. Net shipments are derived by subtracting the sum of producer's domestic receipts of each mill shape from the industry's gross shipments of that shape.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar, alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 4. NET SHIPMENTS OF ALUMINUM MILL PRODUCTS, BY MONTH AND ANNUAL GROSS SHIPMENTS AND RECEIPTS: 1985

(Thousands of pounds)

Product description	Gross shipments	Receipts	Net shipments												
			Total	January	February	March	April	May	June	July	August	September	October	November	December
Aluminum mill products	11,777,420	685,917	11,091,503	878,228	863,080	967,028	967,196	994,540	937,620	940,428	970,859	921,642	980,077	850,147	820,658
Sheet and plate	6,823,577	381,348	6,442,229	493,135	493,813	561,016	554,978	588,218	549,646	556,657	576,340	537,877	556,323	483,670	490,556
Sheet	6,565,743	381,348	6,184,395	471,817	471,592	536,134	533,224	565,573	527,537	538,886	555,164	516,870	533,961	464,127	469,510
Nonheat-treatable	6,345,632	381,348	5,964,284	455,356	454,729	517,101	514,747	546,348	509,439	522,679	537,852	497,239	512,914	446,216	449,664
Heat-treatable	220,111	(1)	220,111	16,461	16,863	19,033	18,477	19,225	18,098	16,207	17,312	19,631	21,047	17,911	19,846
Plate	257,834	(1)	257,834	21,318	22,221	24,882	21,754	22,645	22,109	17,771	21,176	21,007	22,362	19,543	21,046
Nonheat-treatable	74,404	(1)	74,404	5,339	7,039	7,538	6,348	5,555	6,013	5,757	7,095	5,602	7,400	5,963	4,755
Heat-treatable	183,430	(1)	183,430	15,979	15,182	17,344	15,406	17,090	16,096	12,014	14,081	15,405	14,962	13,580	16,291
Foil	812,806	(1)	812,806	59,880	65,033	70,590	72,926	71,872	67,505	63,708	72,273	66,833	76,617	64,352	61,217
Rod, wire, and cable	1,036,161	249,545	786,616	72,899	64,282	77,276	72,287	71,367	66,301	64,464	63,645	59,940	63,731	55,219	55,205
Rod and bare wire	362,974	249,545	113,429	13,832	8,968	11,584	10,513	9,963	6,385	10,702	7,853	5,986	9,503	9,008	9,132
Drawing stock (redraw wire)	276,728	249,545	27,183	6,935	2,137	3,702	2,450	2,176	-206	4,498	30	-944	894	2,119	3,392
Bare wire	86,246	(2)	86,246	6,897	6,831	7,882	8,063	7,787	6,591	6,204	7,823	6,930	8,609	6,889	5,740
Cable and insulated wire	673,187	(2)	673,187	59,067	55,314	65,692	61,774	61,404	59,916	53,762	55,792	53,954	54,228	46,211	46,073
ACSR and aluminum cable, bare	276,986	(2)	276,986	26,781	25,646	31,148	26,048	22,492	22,803	22,534	20,232	20,387	21,030	18,992	18,893
Wire and cable, insulated or covered	396,201	-	396,201	32,286	29,668	34,544	35,726	38,912	37,113	31,228	35,560	33,567	33,198	27,219	27,180
Rod, bar, pipe, tube and shapes	2,848,877	55,024	2,793,853	229,280	219,335	235,877	245,282	238,218	232,934	235,282	237,987	235,793	260,355	228,448	195,062
Rod and bar (rolled and extruded)	246,344	55,024	191,320	16,452	14,568	15,976	16,831	14,534	16,255	14,864	14,705	15,895	18,156	17,527	15,557
Alloys other than 2,000 and 7,000 series	136,355	55,024	81,331	7,368	4,209	5,982	6,926	5,344	6,804	7,143	6,836	7,739	8,472	7,646	6,862
Alloys in 2,000 and 7,000 series	109,989	(3)	109,989	9,084	10,359	9,994	9,905	9,190	9,451	7,721	7,869	8,156	9,684	9,881	8,695
Pipe and tube (extruded and drawn)	249,274	(3)	249,274	21,079	20,514	21,800	22,224	23,829	21,678	20,029	19,154	20,035	21,458	20,015	17,459
Alloys other than 2,000 and 7,000 series	238,631	(3)	238,631	20,166	19,383	21,008	21,210	22,584	20,979	19,240	18,258	18,927	20,563	19,319	16,994
Alloys in 2,000 and 7,000 series	10,643	(3)	10,643	913	1,131	792	1,014	1,245	699	789	896	1,108	895	696	465
Extruded shapes	2,353,259	(3)	2,353,259	191,749	184,253	198,101	206,227	199,855	195,001	200,389	204,128	199,863	220,741	190,906	162,046
Alloys other than 2,000 and 7,000 series	2,285,748	(3)	2,285,748	185,311	178,479	191,477	199,671	195,767	189,804	195,983	199,172	194,247	214,170	185,027	156,640
Alloys in 2,000 and 7,000 series	67,511	(3)	67,511	6,438	5,774	6,624	6,556	4,088	5,197	4,406	4,956	5,616	6,571	5,879	5,406
All other	255,999	(3)	255,999	23,034	20,617	22,269	21,723	24,865	21,234	20,317	20,614	21,199	23,051	18,458	18,618
Powder and paste	107,267	(3)	107,267	10,577	8,302	9,740	8,620	11,173	8,703	8,576	8,725	8,453	9,002	6,910	8,486
Atomized	72,675	(3)	72,675	6,998	6,058	6,781	5,563	7,746	5,514	5,142	5,530	5,873	6,447	4,848	6,175
Other flake, powder and paste	34,592	-	34,592	3,579	2,244	2,959	3,057	3,427	3,189	3,434	3,195	2,580	2,555	2,062	2,311
Forgings and impacts	148,732	-	148,732	12,457	12,315	12,529	13,103	13,692	12,531	11,741	11,889	12,746	14,049	11,548	10,132
Forgings	108,327	-	108,327	9,374	9,616	9,754	10,384	10,543	8,354	7,981	8,877	8,338	9,539	8,019	7,548
Impacts	40,405	-	40,405	3,083	2,699	2,775	2,719	3,149	4,177	3,760	3,012	4,408	4,510	3,529	2,584

Note: Gross shipments of all products represent total shipments by domestic producers to customers, including other producers and shipments by domestic producers to their fabricating departments which manufacture products beyond the level of mill shapes. Receipts are from domestic producers only. Net shipments are derived by subtracting the sum of producer's domestic receipts of each mill shape from the industry's gross shipments of that shape.

- Represents zero.

[1] Data included with nonheat-treatable sheet to avoid disclosing figures for individual companies.
[2] Data included with drawing stock to avoid disclosing figures for individual companies.
[3] Data included with rod and bar; alloys other than 2,000 and 7,000 series to avoid disclosing figures for individual companies.

Table 5. GROSS SHIPMENTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER AND MONTH: 1986

(Thousands of pounds)

Product description	Total			January			February		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
Total	12,111,727	9,364,348	2,747,379	1,007,791	787,688	220,103	968,258	748,928	219,330
Sheet and plate and foil	7,851,677	7,355,651	496,026	646,978	611,401	35,577	626,948	585,232	41,716
Drawing stock, wire, and cable	1,024,825	729,848	294,977	86,137	64,364	21,773	79,821	56,014	23,807
Rod and bare wire	394,864	284,695	110,169	35,173	26,829	8,344	35,900	27,315	8,585
Cable and insulated wire	629,961	445,153	184,808	50,964	37,535	13,429	43,921	28,699	15,222
Rod, bar, pipe, tube, and shapes	2,994,454	1,125,683	1,868,771	253,645	98,364	155,281	241,734	94,291	147,443
All other[1]	240,771	153,166	87,605	21,031	13,559	7,472	19,755	13,391	6,364

	March			April			May		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
Total	1,094,013	860,456	233,557	1,126,921	883,295	243,626	1,160,059	917,413	242,646
Sheet and plate and foil	721,672	678,854	42,818	739,586	695,687	43,899	773,525	729,355	44,170
Drawing stock, wire, and cable	95,756	70,256	25,500	98,365	73,146	25,219	98,197	73,628	24,569
Rod and bare wire	37,729	27,607	10,122	37,791	28,502	9,289	40,696	31,265	9,431
Cable and insulated wire	58,027	42,649	15,378	60,574	44,644	15,930	57,501	42,363	15,138
Rod, bar, pipe, tube, and shapes	256,111	97,847	158,264	266,062	99,527	166,535	265,051	99,056	165,995
All other[1]	20,474	13,499	6,975	22,908	14,935	7,973	23,286	15,374	7,912

	June			July			August		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
Total	1,002,330	755,746	246,584	957,727	734,393	223,334	971,866	742,249	229,617
Sheet and plate and foil	648,303	602,725	45,578	612,928	572,730	40,198	618,172	574,021	44,151
Drawing stock, wire, and cable	79,952	52,528	27,424	79,789	57,279	22,510	92,384	64,756	27,628
Rod and bare wire	26,568	17,140	9,428	28,314	20,161	8,153	32,590	22,757	9,833
Cable and insulated wire	53,384	35,388	17,996	51,475	37,118	14,357	59,794	41,999	17,795
Rod, bar, pipe, tube, and shapes	253,324	87,800	165,524	247,479	93,226	154,253	243,707	92,550	151,157
All other[1]	20,751	12,693	8,058	17,531	11,158	6,373	17,603	10,922	6,681

See footnotes at end of table.

Table 5. GROSS SHIPMENTS OF ALUMINUM MILL PRODUCTS, BY TYPE OF PRODUCER AND MONTH: 1986--Continued

(Thousands of pounds)

Product description	September			October		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
Total	990,091	752,910	237,181	1,034,838	791,377	243,461
Sheet and plate and foil	629,821	587,554	42,267	657,646	613,913	43,733
Drawing stock, wire, and cable	86,901	62,624	24,277	88,902	60,055	28,847
Rod and bare wire	35,544	25,234	10,310	31,765	22,072	9,693
Cable and insulated wire	51,357	37,390	13,967	57,137	37,983	19,154
Rod, bar, pipe, tube, and shapes	253,239	90,294	162,945	266,081	103,642	162,439
All other[1]	20,130	12,438	7,692	22,209	13,767	8,442
	November			December		
	Total	Integrated	Nonintegrated	Total	Integrated	Nonintegrated
Total	886,891	679,236	207,655	910,942	710,657	200,285
Sheet and plate and foil	574,176	536,454	37,722	601,922	567,725	34,197
Drawing stock, wire, and cable	68,737	47,775	20,962	69,884	47,423	22,461
Rod and bare wire	27,544	18,554	8,990	25,250	17,259	7,991
Cable and insulated wire	41,193	29,221	11,972	44,634	30,164	14,470
Rod, bar, pipe, tube, and shapes	227,058	84,446	142,612	220,963	84,640	136,323
All other[1]	16,920	10,561	6,359	18,173	10,869	7,304

[1]Data for shipments of all other include powder and paste and forgings and impacts.

Table 6. DEFENSE SHIPMENTS OF ALUMINUM INGOT AND MILL PRODUCTS, BY MONTH: 1986 AND 1985

(Thousands of pounds)

Product description	Total	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1986													
Ingot and mill products (excluding forgings but including forging stock)	123,894	15,486	12,240	10,594	10,800	12,807	7,260	7,862	8,462	9,953	11,025	8,946	8,459
Sheet and plate	59,481	8,260	5,274	5,319	5,440	5,493	3,027	3,241	3,798	5,517	5,451	4,658	4,003
Other (including ingot)	64,413	7,226	6,966	5,275	5,360	7,314	4,233	4,621	4,664	4,436	5,574	4,288	4,456
Forgings and impacts	13,379	1,279	1,488	1,229	1,162	1,131	1,309	822	870	827	1,034	918	1,310
1985													
Ingot and mill products (excluding forgings but including forging stock)	143,138	11,624	12,737	15,167	13,329	12,721	11,937	10,840	11,978	10,048	12,065	9,536	11,156
Sheet and plate	70,493	5,301	6,982	8,745	6,644	5,690	5,986	5,135	5,496	5,092	6,223	4,542	4,657
Other (including ingot)	72,645	6,323	5,755	6,422	6,685	7,031	5,951	5,705	6,482	4,956	5,842	4,994	6,499
Forgings and impacts	22,920	1,615	1,564	2,032	2,147	2,098	2,312	2,672	1,922	1,785	1,899	1,428	1,446

Note: Included as defense shipments are programs for Department of Defense, Atomic Energy Commission, National Aeronautics and Space Administration Federal Aviation Agency, etc.

Table 7. MONTH-END INVENTORIES OF ALUMINUM INGOT, MILL PRODUCTS, AND SCRAP: 1986 AND 1985

(Thousands of pounds)

Type of inventory	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1986												
Total	5,165,110	5,157,589	5,053,334	5,096,795	5,044,365	5,044,496	5,083,016	5,057,099	4,977,155	4,926,735	4,901,768	4,927,713
Integrated	4,369,208	4,351,290	4,247,694	4,272,963	4,194,477	4,203,577	4,248,483	4,231,376	4,168,204	4,114,352	4,112,909	4,079,679
Smelters	182,338	175,686	173,168	181,521	186,609	179,701	176,987	177,450	175,804	182,946	170,360	190,092
Nonintegrated	613,564	630,613	632,472	642,311	663,279	661,218	657,546	648,273	633,147	629,437	618,499	657,942
Ingot	2,164,390	2,035,749	1,865,876	1,794,568	1,833,265	1,949,147	1,997,685	2,059,469	1,999,284	1,898,293	1,881,074	1,973,317
Integrated	1,827,335	1,726,155	1,554,866	1,473,346	1,512,833	1,616,958	1,666,006	1,731,183	1,680,608	1,575,077	1,566,024	1,643,447
Smelters	75,105	68,507	73,595	85,037	80,883	79,104	84,464	81,159	78,047	80,998	79,758	76,724
Nonintegrated	261,950	241,087	237,415	236,185	239,549	253,085	247,215	247,127	240,629	242,218	235,292	253,146
Scrap	562,898	563,853	519,951	559,709	597,176	624,156	624,421	622,844	645,049	619,341	595,840	630,368
Integrated	410,619	410,582	376,811	419,179	436,780	468,131	474,982	466,018	486,391	451,582	443,385	443,096
Smelters	107,233	107,179	99,573	96,484	105,726	100,597	92,523	96,291	97,757	101,948	90,602	113,368
Nonintegrated	45,046	46,092	43,567	44,046	54,670	55,428	56,916	60,535	60,901	65,811	61,853	73,904
All other	2,437,822	2,557,987	2,667,507	2,742,518	2,613,924	2,471,193	2,460,910	2,374,786	2,332,822	2,409,101	2,424,854	2,324,028
Integrated	2,131,254	2,214,553	2,316,017	2,380,438	2,244,864	2,118,488	2,107,495	2,034,175	2,001,205	2,087,693	2,103,500	1,993,136
Nonintegrated	306,568	343,434	351,490	362,080	369,060	352,705	353,415	340,611	331,617	321,408	321,354	330,892
1985												
Total	5,900,182	5,824,039	5,795,796	5,748,976	5,712,103	5,595,244	5,578,681	5,511,738	5,439,082	5,324,328	5,240,716	5,165,403
Integrated	5,089,837	5,018,096	4,973,031	4,930,647	4,898,113	4,801,231	4,779,734	4,724,469	4,674,367	4,568,022	4,504,949	4,407,097
Smelters	218,691	206,914	213,798	211,926	208,144	207,998	213,806	203,911	196,017	202,988	192,891	198,009
Nonintegrated	591,654	599,029	608,967	606,403	605,846	586,015	585,141	583,358	568,698	553,318	542,876	560,297
Ingot	2,748,516	2,787,202	2,638,667	2,609,610	2,594,792	2,445,920	2,460,137	2,410,464	2,366,686	2,355,769	2,286,300	2,234,976
Integrated	2,465,937	2,488,149	2,325,773	2,289,332	2,273,676	2,149,951	2,154,328	2,105,369	2,081,207	2,071,554	1,995,378	1,948,606
Smelters	91,815	91,020	88,352	95,907	93,608	90,968	94,171	87,714	72,840	72,888	83,673	81,447
Nonintegrated	190,764	208,033	224,542	224,371	227,508	205,001	211,638	217,381	212,639	211,327	207,249	204,923
Scrap	705,289	676,998	664,049	681,186	695,479	666,671	683,744	696,188	661,040	639,235	612,383	586,784
Integrated	543,803	532,586	511,661	526,307	558,333	516,984	526,272	538,612	503,259	472,220	468,798	409,333
Smelters	126,876	115,894	125,446	116,019	114,536	117,030	119,635	116,197	123,177	130,100	109,218	116,562
Nonintegrated	34,610	28,518	26,942	38,840	22,610	32,657	37,837	41,379	34,604	36,915	34,367	40,889
All other	2,446,377	2,359,839	2,493,080	2,458,200	2,421,832	2,482,653	2,434,800	2,405,086	2,411,356	2,329,324	2,342,033	2,363,643
Integrated	2,080,097	1,997,361	2,135,597	2,115,008	2,066,104	2,134,296	2,099,134	2,080,488	2,089,901	2,024,248	2,040,773	2,049,158
Nonintegrated	366,280	362,478	357,483	343,192	355,728	348,357	335,666	324,598	321,455	305,076	301,260	314,485

Table 8. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF ALUMINUM MILL PRODUCTS: 1986 AND 1985

(Quantity in thousand pounds)

Product code	Product description	Manufacturers' net shipments[1]	Exports of domestic merchandise[2]	Percent exports to manufacturers' shipments	Imports for consumption[3] [4]	Apparent consumption[5]	Percent imports to apparent consumption
	1986						
	Mill products[6]	10,877,527	430,607	4.0	1,088,826	11,535,746	9.4
33532 21 33532 25 33531 13 33531 15	Sheet and plate	6,629,449	359,807	5.4	836,044	7,105,686	11.8
33533 51	Foil	860,544	13,249	1.5	60,278	907,573	6.6
33541 15 33541 18 33552 25	Rod and bar	223,906	21,258	9.5	128,911	331,559	38.9
33551 31	Bare wire	104,785	6,750	6.4	14,481	112,516	12.9
33551 65	Bare cable	233,815	1,134	0.5	4,923	237,604	2.1
33541 25 33541 28	Extruded shapes	2,459,526	15,536	0.6	18,453	2,462,443	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	269,279	6,878	2.6	13,446	275,847	4.9
33991 13 33991 16	Powder and paste	96,223	5,995	6.2	12,290	102,518	12.0
	1985						
	Mill products[6]	10,546,570	408,292	3.9	1,020,620	11,158,898	9.1
33532 21 33532 25 33531 13 33531 15	Sheet and plate	6,442,229	329,299	5.1	770,085	6,883,015	11.2
33533 51	Foil	812,806	12,026	1.5	57,169	857,949	6.7
33541 15 33541 18 33552 25	Rod and bar	218,503	22,846	10.4	128,692	324,349	39.7
33551 31	Bare wire	86,246	8,928	10.4	21,099	98,417	21.4
33551 65	Bare cable	276,986	5,697	2.1	4,469	275,758	1.6
33541 25 33541 28	Extruded shapes	2,353,259	15,679	0.7	16,307	2,353,887	0.7
33542 43 33542 45	Pipe and tube (extruded and drawn)	249,274	7,547	3.0	7,375	249,102	3.0
33991 13 33991 16	Powder and paste	107,267	6,270	5.8	15,424	116,421	13.2

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 9.

[1] Net shipments for mill products are derived by subtracting producers' receipts from domestic sources of each mill shape from the industry's gross shipments of that shape.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] Source: Bureau of the Census report IM 146, U.S. Imports for Consumption.

[4] These import figures differ from those included in the footnote 4 on table 2A. The figures in table 2A are limited to import receipts by aluminum mill products producers for further rolling, drawing, etc.; whereas, the figures in this table also include import receipts for other purposes.

[5] Apparent consumption is derived by subtracting exports from the total of net shipments plus imports. These figures are overstated because of the inclusion of imports received by aluminum mill products producers for further rolling, drawing, etc. See footnote 4 on table 2A for information relative to the amounts of such imports received by aluminum rolling mills.

[6] Excludes insulated wire and cable and forgings and impacts.

Table 9. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS

Product code	Product description	Export number	Product description	Import number	Product description
				618.2520	Circles and discs
				618.2550	Plates
33532 21	Sheet	618.2870	Circles and discs	618.2565	Sheets and strip
33532 25	Sheet	618.2890	Other	618.2580	Other
33531 13	Plate	618.2830	Circles and discs	618.2720	Circles and discs, clad (wholly of aluminum)
33531 15	Plate	618.2850	Other		
				618.2765	Other, clad (wholly of aluminum)
				618.2900	Other, clad
				644.0600	Etched capacitor foil
				644.0800	Foil not over 0.00035 inch in thickness, valued not over 55 cents per pound
33533 51	Foil	644.0720	Not backed	644.0900	Foil not over 0.00035 inch in thickness, valued over 55 cents per pound
				644.1100	Foil over 0.00035 inch in thickness, valued not over 55 cents per pound
				644.1200	Foil over 0.00035 inch in thickness, valued over 55 cents per pound
				644.2600	Foil cut to shape
		618.1540	Rods, 0.375 inch or more in diameter (including continuous cast)	618.1540	Rods, 0.375 inch or more in diameter
33541 15	Rod and bar				
33541 18	Rod and bar	618.2810	Bars	618.2540	Bars, not clad
33552 25	Rod and bar				
		618.1520	Rods, under 0.375 inch diameter (including continuous cast)	618.1520	Rods, under 0.375 inch in diameter
33551 31	Bare wire	618.2100	Wire (including continuous cast)	618.2000	Wire, not coated or plated with metal
				618.2200	Wire, coated or plated with metal
33551 65	Bare cable	688.2000	Uninsulated electrical conductors composed of aluminum wire or strand spirally wound or twisted around a steel or aluminum core	688.2000	Uninsulated electrical conductors composed of aluminum wire or strand spirally wound or twisted around a steel or aluminum core
33541 25	Extruded shapes	618.1700	Angles, shapes, and sections (including continuous cast)	618.1700	Angles, shapes, and sections
33541 28	Extruded shapes				
33542 43	Pipe and tube	618.4620	Tubes, pipes and blanks: seamless	618.4700	Pipes, tubes, blanks, and pipe and tube fittings of aluminum except hollow cast extrusion ingots
33542 45	Pipe and tube	618.4640	Tubes, pipes and blanks: except seamless		
33991 13	Powder and paste	618.4000	Flakes	618.4000	Flakes
33991 16	Powder and paste	618.4200	Powders	618.4200	Powders

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers companies engaged in the production in the continental United States of aluminum ingot and/or mill products. Master alloys are included. Receipts of imported aluminum products are also included. Companies engaged in tolling operations are also surveyed.

Survey Methodology. The statistics in this publication are collected by mail on Bureau of the Census, International Trade Administration joint survey monthly Form ITA978, Aluminum Producers and Importers Report (Receipt, Shipments, and Stocks). The panel for this survey consists of all known producers of aluminum ingot and mill products shipping ten thousands of pounds or more of aluminum ingot and mill products per month, approximately 215 companies. Based on an earlier study, small producers shipping less than ten thousands of pounds per month would not significantly affect the survey results.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on month-to-month movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Monthly data and data for prior years may be revised as the result of corrected figures from respondents or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment. The data are adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods. Since the calendar month accounting system prevails in this industry, adjustments have been made to those reporting on other than a calendar month basis.

EXPLANATION OF TERMS

Gross Shipments. Represents the quantity of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Receipts. Represents metal physically received, both from imports and from domestic sources. Metal received under toll arrangements, even though title or ownership of the metal may remain with the shipper, is also included. Scrap receipts are not included.

Inventories. Includes all forms of scrap, ingot, metal in process, and finished products listed in this report. All metal physically in plant inventories at the end of the month whether or not title or ownership of the metal may have been transferred, including toll arrangements.

Ingot Inventory. All metal which is in the form of extrusion billets or other ingot and molten metal, primary and secondary.

Scrap Inventory. Purchased and toll-treated aluminum-base scrap and sweated pig in all forms, as well as home or runaround scrap. Also includes remelt scrap ingot (RSI).

All Other Inventory. Includes all mill products which are in a finished or the process of being finished state.

Integrated Producers. Companies in the United States that produce primary aluminum ingot (from alumina) and may also produce mill products.

Nonintegrated Producers. Companies which produce mill products in the United States and which are not affiliated with a domestic primary ingot producer.

Smelters. Companies whose aluminum facilities are exclusively devoted to producing specification ingot from scrap.

Ingot (Billet), Extrusion. A solid or hollow cast form, usually cylindrical, suitable for extruding.

Other Ingot and Molten Metal, Primary and Secondary. Molten aluminum or a solid form (other than extrusion ingot) suitable for remelting or fabricating, produced either from alumina or from scrap; excludes remelt scrap ingot (RSI) which is considered scrap until remelted and cast into specification ingot.

Foil. A flat rolled product, rectangular in cross-section, of thickness less than 0.006 inches.

Sheet. A rolled product, flat or coiled, rectangular in cross section, of 0.006 inches in thickness but under 0.250 inches in thickness.

Plate. A flat rolled product, rectangular in cross section, 0.250 inches or greater in thickness.

Wire. A solid wrought product that is long in relation to cross section, which is square, round, rectangular, hexagonal, or octagonal in shapes, whose diameter or greatest perpendicular distance between parallel faces (except for flattened wire) is less than 0.375 inches.

Drawing Stock (Redraw Rod) (Continuous Cast or Rolled). A solid round product that is long in relation to cross section, 0.375 inches or greater in diameter, produced by continuous casting followed by size-rolling or by rolliing from D.C. cast ingot, suitable for drawing into wire.

Rod and Bar (Rolled and/or Extruded). A solid round, square, rectangular, hexagon, or octagonal-shaped product that is long in relation to cross-section, 0.375 inches or greater in diameter or in at least one perpendicular distance between parallel faces, produced by continuous casting or rolling or by extruding; other than drawing stock and D.C. cast ingot.

Pipe and Tube (Extruded and Drawn). A hollow wrought product with a uniform wall thickness (except as affected by corner radii) that is long in relation to its cross-section, round, square, rectangular, hexagonal, octagonal, or elliptical in shape, produced either by hot extruding and/or brought to final dimensions by cold drawing through a die.

Extruded Shapes. A product produced by extruding, that is long in relation to its cross-sectional dimension and has a cross section other than that of rod and bar or pipe and tube.

Cable, ACSR, and Aluminum (Bare). Aluminum stranded conductor reinforced by a core of steel (ACSR); or any other bare stranded aluminum conductor.

Powder, Atomized. Powder produced by blowing or asperating molten metal through an orifice.

Other Flake, Powder, and Paste. Includes the following products:

Powder. An aggregate of discrete particles of aluminum, substantially all of which are finer than 1,000 microns (minus 18 mesh).

Paste. A blend of powder or flake with a thinner or plasticizer.

Powder, Flaked. Powder consisting of flat or scale-like particles of a thickness small compared with other dimensions, produced by milling in the presence of a lubricant.

Forgings (Excluding Impact Extrusions). A product worked to a predetermined shape by one or more processes such as hammering, upsetting, pressing, rolling, etc.

Impacts (Excluding Collapsible Tubes and Cans). A product formed in a confining die from a metal slug, usually cold, by a rapid simple stroke application of force through a punch, causing the metal to flow around the punch, and/or through an opening in the punch or die.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output*—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.
- *Exports.*—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.
- *Imports.* Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves,

footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Export. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTE

Data on aluminum ingot and mill products have been collected by the Bureau of the Census since 1942. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 347-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, North Caroline	(704) 371-6142
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 767-0621
Denver, Colorado	(303) 236-2200
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 209-6616
New York, New York	(212) 264-3860
Philadelphia, Pennsylvania	(215) 596-4920
Seattle, Washington	(206) 442-7828

Historical data are also available on microfiche. For further information contact the Bureau of the Census, Data User Services Division, (301) 763-4100.

RELATED REPORTS

A monthly Current Industrial Report is published in this series. The Bureau of the Census also publishes the following related reports:

Series	Frequency	Title
Current Industrial Reports		
M33E	Monthly	*Nonferrous Castings*
MA33L	Annually	*Insulated Wire and Cable*
Other Industry Reports		
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(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
EM 546 FT 446	Monthly Annually	*U.S. Exports-Schedule B-Commodity by Country*
IM 146 FT 246	Monthly Annually	*U.S. Imports for Consumption—TSUSA—Commodity by Country*

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Reports M33-2	Ed Coan	(301) 763-5547
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International Trade Administration	James Kennedy	(202) 566-7941
General Services Administration	J.H. Merriman, Jr.	(202) 566-1986
Bureau of Mines	Frank X. McCawley	(202) 634-1080

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